

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 FIFTH AVENUE • NEW YORK 17 • N. Y.

August 23, 1961

MEMORANDUM:

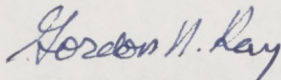
Mr. Herbert Friedmann

has suggested to us that you may wish to make application for a Guggenheim Fellowship and, accordingly, we send you, herewith, a statement concerning our Fellowships and a set of application forms.

In making this suggestion that you may be interested to apply, we do not give you any assurances concerning the result of an application here. That the staff is unable to do; for all decisions are made by the Foundation's Committee of Selection. But we do assure you that any application you may present will be carefully considered.

If you have questions, we shall be pleased to try to answer them.

Sincerely yours,



Gordon N. Ray
Secretary General

Dr. Hildegarde Howard
c/o Mr. Herbert Friedmann, Director
Los Angeles County Museum
900 Exposition Boulevard
Los Angeles 7, California

*File under
Honor*

Please return

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 Fifth Avenue, New York

On the last page of the enclosed application form are some "Suggestions concerning Applications." The following answers frequently-asked questions:

The average number of references named by applicants is seven--which means that eight copies of statements of plans should be provided if an applicant's references number seven. If, however, an applicant submits hectographed or mimeographed statements of plans, we should like to get a dozen copies. Applicants who submit more than twelve names for reference should of course, submit one more plan than the number of references.

Similarly, if applicants have hectographed or mimeographed statements of their records, we should like a dozen copies, please.

If candidates have hectographed or mimeographed lists of their publications, or lists of their artistic accomplishments, we should like to get a dozen copies of such lists, also.

In short, while the application form suggests at certain points that at least three copies of a particular statement should be submitted, this memorandum requests that, if convenient to the applicant, he submit a dozen copies of each such statement--for that, generally, is the number of each statement we require during the course of consideration of an application.

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 FIFTH AVENUE • NEW YORK 17 • N • Y •



NONPROFIT ORG.

Dr. Hildegarde Howard
c/o Mr. Herbert Friedmann, Director
Los Angeles County Museum
900 Exposition Boulevard
Los Angeles 7, California

circle:

memorandum

file circulate

for your information

reply post return

initial hold

date Sept 14 1961

from HJ

to HH

Re question on second line of last page,)
suggest

Study begun but has proceeded slowly due to interruptions. Plan to concentrate on it as soon after January 1, 1962 as possible, if support is granted.

Everything else seems fine

Good luck

HJ

↓
action taken:

date:

APPLICATION FROM

Hildegarde Howard Wylde
1545 West 111th Street, Los Angeles 47, California

Studies in Paleornithology relating to late Tertiary
and Quaternary birdlife of the western United States

Enclosed herewith

One copy application form
Twelve copies "Accomplishments" and "Plans"
Twelve copies Bibliography

*Rough draft
Please return to Hildegarde*

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 FIFTH AVENUE • NEW YORK 17 • N • Y •

APPLICATIONS and accompanying documents should reach the office of the Foundation not later than October 15 of each year.

In what field of learning, or of art, does your project lie?.....Paleontology.....
Concise statement of project.....Studies in Paleornithology, particularly
relating to late Tertiary and Quaternary birdlife of the
western United States
.....
.....
.....

PERSONAL HISTORY:

Name in full.....Hildegarde Howard Wylde.....
Present address.....1545 West 111th Street, Los Angeles 47, California.....
.....Telephone.....Plymouth 4.4990.....
A permanent address.....As above.....
Present occupation.....Retired Sept. 18, 1961 as Chief Curator of Science, Los Angeles
County Museum; now honorary Research Associate
Place of birth.....Washington, D.C......Date of birth.....April 3, 1901.....
If not a native-born American citizen, date and place of naturalization.....
.....
Single, Married, Widowed, Divorced.....Married.....
Name and address of wife or husband.....Henry Anson Wylde, same address as above.....
Name and address of nearest kin, if unmarried.....
Ages of children, if any.....None.....
Have you any constitutional disorder or physical disability?.....Wear a hearing aid, and use
eye glasses for reading.....

EDUCATION:

1. Give a summary of your education in the following form:

	Name of Institution	Period of Study (give dates)	Degrees, Diplomas, Certificates (give dates)
Academic:			
College			
University	University of California	1920-1928	A.B., 1924 M.A., 1926 Ph.D., 1928
Technical			
Professional			
Musical			
Artistic			
Special Study			

2. Give a list of the scholarships or fellowships you have previously held or now hold, stating in each case the places and dates, the studies pursued during your incumbency, and amounts of the awards:

University of California Teaching Fellowship, 1925-1927 (2 academic yrs.)

University of California Research Fellowship, 1927-1928 (1 academic year)

Covered period of work on Ph.D., Zoology major, paleontology minor;
The final year was devoted to preparation of doctoral dissertation on
the avifauna of the Emeryville Shellmound
Amount was, I think, \$750 per academic year

3. State what foreign languages you have studied and whether

you are able to consult works on your subject in those languages.

Estimate your proficiency in reading, writing and speaking each:

French... good reading... poor writing... speaking

German... fair reading... poor writing... speaking

Spanish... fair reading... poor writing... speaking

I am able to consult works in my subject in
these languages, and also Italian.

4. List the learned, scientific or artistic societies of which you

are a member: Fellow: Geological Society America,

Amer. Ornithologists Union, Calif. Academy

Sci., So. Calif. Acad. Sci., A.A.A.S. ~~member~~

Member: Cooper Ornithological Soc., Soc. Vertebrate

Paleontology, Soc. for Study of Evolution,

Sigma Xi, Phi Sigma, Phi Beta Kappa.

Please attach
here a small
recent photograph

ACCOMPLISHMENTS:

1. Positions held (professional, teaching, scientific, administrative, business):

Name of Institution or Organization	Title of Position	Years of Tenure (give dates)	Compensation
Univ. Calif., Los Angeles	Assistant in Zoology	1924-1925	I don't remember
Los Angeles County Museum	Research Assistant	1924 - 1925	part-time, \$4 per da.
" " " "	" "	1928 - 1929	100 - \$105 per mo.
" " " "	Jr. Asst. Vertebrate Paleontologist	1929 - 1939	150 - 160 per mo.
" " " "	Curator Avian Paleon.	1939-1951	168 - 375
" " " "	Chief Curator Div. of Science	1951 - 1961	1107
Santa Barbara Museum of Natural History	Research Associate	1961 -	Honorary
	Research Assoc. in Avian Paleontology	1957 -	Honorary

2. Submit a full account of the advanced studies and research, or works of artistic creation, you already have accomplished, giving dates, subjects, and names of your principal teachers in your field. What are your present attainments in your proposed field of study? (Please submit at least three copies.)

3. Submit a list of your publications with exact titles, names of publishers, and dates and places of publication. (Please submit at least three copies. Do not send us publications or manuscripts.)

Special note to candidates in the fields of fine arts, creative writing and musical composition, in reference to paragraphs 2 and 3 above:

An applicant in a field of the fine arts should submit at least three copies of a detailed account of his or her entire career as a student of art and as a creative artist. Please list public exhibitions, with names of items shown and dates and places of exhibitions. Also, please list prizes and honors won, important purchases, etc.

Similarly, an applicant in the field of creative writing should submit at least three copies of a detailed account of his or her student and creative career, including a list of published works, with names of publishers, and dates and places of publication.

Similarly, an applicant in the field of musical composition should submit at least three copies of a detailed account of his or her student and creative career in musical composition, including a list of public performances, with names of orchestras and conductors, a list of published compositions, with names of publishers and dates and places of publications, and a list of recordings.

PLANS:

Submit a statement of plans for your use of a Fellowship if it be awarded to you. *Statement of plans for research* should include, *inter alia*: a description of the project, including its character and scope, and the significance of its presumable contribution to knowledge, or to art; the present state of the project, time of commencement, progress to date, and expectation as to completion; the place or places where the study would be carried on, and the authorities, if any, with whom it would be done; your expectation as to publication of your study; and your ultimate purpose as a scholar or artist.

Plans for artistic creation should outline, as closely as may be done for creative effort, what the applicant has in mind to do during the period for which the Fellowship is requested.

Please submit at least one more copy of PLANS than the number of your references.

Herbert; I could say here - "The study has already commenced. I would appreciate assistance from the Foundation as early in 1962 as possible." I wrote in the little white brochure (enclosed herewith for your perusal) that "Final selection of fellows for 1962-63 will be made in April, 1962." 141

If awarded a Fellowship: Where do you plan to study? Los Angeles County Museum, with trips to consult collections in eastern museums

When would you wish to commence the study proposed? January 1, 1962

What is your estimate of its probable duration? For the portion of the study outlined here, two years.

REFERENCES:

Submit a list of names of persons from whom confidential information may be obtained concerning your abilities, especially in relation to your proposal for the use of a Fellowship, and from whom expert opinion may be obtained as to the value and practicability of your project. (All statements by references to the Foundation are held strictly confidential.)

Name of Reference	Position	Address
Dr. Herbert Friedmann	Director, L.A.Co.Mus.	Los Angeles County Museum 900 Exposition Blvd., Los Angel.7
Dr. Alexander Wetmore	Sec'y Smithsonian Inst. (retired)	U.S. National Museum, Washington
Prof. Loye H. Miller	Emeritus professor, Univ. California	Department Biology, Univ. Calif. Davis, Calif.
Prof. Alden H. Miller	Director Museum of Vertebrate Zoology and vice-chancellor Univ., Calif.	Museum of Vertebrate Zoology, University of California, Berkeley
Dr. E. Raymond Hall	Director, Nat'l Hist. Mus., Univ. Kansas	Museum of Natural History University of Kansas Lawrence, Kansas
<u>D. Geo. Gaylord Suisson</u>	<u>Agassiz Prof. Vert. Paleon. Hawaii Univ</u>	<u>Mus. Comparative Zoology Hawaii Univ., Cambridge, Mass.</u>

If you have applied or expect to apply elsewhere for any fellowship or scholarship for the same period, state the facts regarding such applications: No other applications

If you apply elsewhere for any fellowship or scholarship after presenting this application, please notify the Foundation immediately.

SIGNATURE.....

PLACE AND DATE OF MAILING..... Sept 19, 1961

SUGGESTIONS CONCERNING APPLICATIONS

1. If convenient, please type application and additional material.
2. Use paper the size of this sheet, 8 1/2" x 11", if possible, for writing all documents submitted.
- ✓ 3. Every page or document submitted must bear the applicant's name plainly written.
4. Whenever the space provided in this form is not suitable for an applicant to present fully the facts of his or her case, it is requested that they be stated in a separate document.
5. Only one copy of the application form should be submitted to the Foundation by the applicant; the other may be retained by him for his own files.
6. It is suggested that applications and accompanying documents be sent by registered mail, addressed to the John Simon Guggenheim Memorial Foundation, 551 Fifth Avenue, New York 17, N. Y.
7. If you do not get a receipt for your application within a reasonable time, please notify the Foundation.

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 Fifth Avenue · New York City

Dr. Hildegard Howard Wylde:

Receipt is acknowledged of your application for a Fellowship. Awards for 1962-63 will be made in April, 1962, and you will then be notified by letter of the action taken on your application.

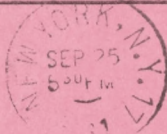
Sept. 22. 1961

Dr. Hildegarde Howard Wylde:

Receipt is acknowledged of your application for a Fellowship. Awards for 1962-63 will be made in April, 1962, and you will then be notified by letter of the action taken on your application.

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, \$300



GRAND CENTRAL
STATION

POSTMARK OF
DELIVERING OFFICE

INSTRUCTIONS: Fill in items below and complete #1 on other side, when applicable. Moisten gummed ends and attach to back of article. Print on front of article RETURN RECEIPT REQUESTED.

← RETURN
TO

POD Form 3811 Jan. 1958

REGISTERED NO.

NAME OF SENDER

CERTIFIED NO.

STREET AND NO. OR P. O. BOX

INSURED NO.

CITY, ZONE AND STATE

Hildegard Howard Wyld

1545 West 111th Street

Los Angeles 47, Calif.

#1-INSTRUCTIONS TO DELIVERING EMPLOYEE



Deliver *ONLY* to
addressee



Show address where
delivered

(Additional charges required for these services)

RETURN RECEIPT

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)

Guggenheim

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

M. L. L...

DATE DELIVERED

9-22-61

ADDRESS WHERE DELIVERED (only if requested in item #1)

Dr. Hildegarde Howard Wylde

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 FIFTH AVENUE

NEW YORK

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 FIFTH AVENUE • NEW YORK 17 • N. Y.

November 24, 1961

Will you please write us your judgment of the abilities of the applicant for a Guggenheim Fellowship whose name appears on the attached papers and who has referred us to you?

Our Fellowships are granted to persons who have demonstrated unusual capacity for productive scholarship or unusual creative ability in the arts. Hence, the primary question to be answered is the quality of the applicant's previous accomplishments.

Your critical advice will be appreciated and I beg to give you the most strict assurances that anything you may say will be held in confidence.

Thank you!

J. Kellum Smith Jr.

J. Kellum Smith, Jr.
Assistant Secretary

Professor Loye H. Miller
Zoology Department
University of California
Davis, California

1545 West 111 th Street
Los Angeles 47, California
February 22, 1962

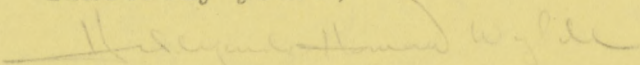
Mr. Henry Allen Moe
551 Fifth Avenue
New York 17, New York

Dear Mr. Moe:

Thank you for your letter of February 18 with enclosed form for estimated budget.

I trust that the information I have filled in is adequate. You will note that I made no entry under "Estimated other expenses." Those would be only normal living expenses at home while doing research at the Los Angeles County Museum. I anticipate being away from Los Angeles only about 10 weeks during the two-year period -- the big job is right here! Expenses during those ten weeks are included on the budget form under "travel."

Sincerely yours,


Hildegard Howard Wylde

United Airlines
L.A. to Gainesville
(Atlanta)

1st class coach

La - Gainesville

\$17.52

Gainesville
Wash. D.C.

\$493.85

(with
some small
tufts
1st class)

Wash D.C.

La to Atlanta, Atlanta to
Gainesville, Gainesville
to Baltimore, Baltimore
to New York, New York to
Thaca, Thaca to Detroit
(Cleveland)
to La.

Delta to Atlanta

6:30 AM San Jacinto - 5:58 AM 220 } combination 7:37-7:50 PM
6:20 PM OWE 6:30 AM rd trip 52.86 km, bedroom 71.90 } 48.01 9:44 PM
bus 9:30 AM 40¢ Lark leaves 9:00 PM 10:20 AM
from Oakland 8:30 AM

SUGGESTED FORM OF ESTIMATED BUDGET
FOR PERIOD OF FELLOWSHIP:

Period for which Fellowship is requested: 24 . months
Contemplated period of Fellowship: From . . April, 1962. . . .
To . . . April, 1964. . . .

Place or places where you plan to carry on your proposed studies:
Los Angeles County Museum, with trips to Museums in eastern U.S., Ariz., &
northern California, particularly U.S. National Museum, University of
Florida, University of California and Stanford Univ.; others as needed
Mus. Northern Arizona & Univ. Ariz.

ESTIMATED EXPENSES:

Expenses of travel incident to Fellowship grant: 1270
Transportation (for yourself) \$ 800
Meals and lodging while travelling (for yourself) \$ 1000 (10 wks @ \$16 per da) 420
Allowance for travel of your family, if any \$
Research incident to Fellowship grant \$ 1600 (20 wks @ \$2 hr.)
Clerical help incident to Fellowship grant \$.500
Equipment incident to Fellowship grant \$ 100
Total \$ 4000

Estimated other expenses:

Living expenses for your family, if any \$
Other expenses \$
Total \$
Total Estimated Expenses \$

ESTIMATED RESOURCES:

Sabbatical, or other leave, salary \$
Other income Retired on pension \$ 7800 per annum
Sum requested as Guggenheim Fellowship grant \$ 2000 for total (\$4000)
Total Estimated Resources \$ 9800 per annum

What post-doctoral Fellowships have you held since January 1, 1954?

NONE

And for what total number of months? _____

Have you pending an application for another grant or scholarship or
Fellowship for the same or similar studies and period as your applica-
tion to us? NO . If so--or if you have received another award--
please write us any facts which seem to you to be relevant.

Signature Hildegard Homan Wyles

Address 1545 West 11th St. LA 47
Calif.

Single, Married, Widowed, Divorced Married

Ages of children, if any NONE

Current annual salary or earnings Retirement pension \$7800 per annum

Title of present position Research Associate Vertebrate Paleontology

Institution Los Angeles County Museum

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 FIFTH AVENUE • NEW YORK • N • Y •

18 February 1962

When the Foundation's Committee of Selection meets for final decisions on Fellowship applications for 1962-63, they will want, I judge, certain information concerning your financial needs for the period of your contemplated study. Enclosed herewith is a form which will indicate to you the kind of information I request. A copy of the form is enclosed for your file.

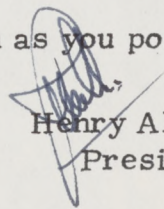
Related to the question of the amount of the fellowship grant you would need for your proposed studies is Section 117 of the Internal Revenue Code of 1954. In effect, Section 117 says that gross income does not include fellowship grants to recipients who are not studying for degrees (if granted by an organization such as this one) up to a limit of \$300. a month for a maximum of 36 months, and that any amounts received and used to cover expenses which are incident to the fellowship grant "for travel, research, clerical help, or equipment" shall not be taxable as income. In respect to Section 117, the Bureau of Internal Revenue has issued Regulations (copy enclosed) which provide for the exclusion from taxable income of such sums as are "specifically designated to cover expenses for travel (including meals and lodging while traveling and an allowance for travel of the individual's family), research, clerical help, or equipment" and are actually expended for such items during the period of the fellowship, in order to effectuate the purpose for which the fellowship grant was awarded.

Because of Section 117 and the Bureau's Regulations, I think it will be well for you to itemize on the attached form your estimates of the amounts to be used for such deductible expenses which you contemplate incurring during the period of the Fellowship that you are requesting.

Sabbatical leave salaries, Fulbright research grants and grants-in-aid may be held concurrently with Guggenheim Fellowship grants; but other fellowships or scholarships--as distinct from grants-in-aid--may not be held concurrently. Hence, the situation will be--if you are awarded a Guggenheim Fellowship and also are awarded another fellowship or scholarship for the same period--that, so far as we are concerned, you may take your choice but you may not have both for the same period.

Will you please send me your response as soon as you possibly can do so?

Dr. Hildegard Howard Wylde
1545 West 111 Street
Los Angeles, California



Henry Allen Moe
President

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 FIFTH AVENUE • NEW YORK • N. Y.

17 April 1962

Dr. Hildegarde Howard Wylde
1545 West 111 Street
Los Angeles 47, California

Dear Dr. Wylde:

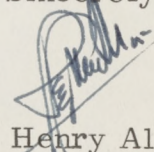
Here's notification of your Guggenheim Fellowship:
I send it with special pleasure.

Instead of making you a Fellowship grant of \$4,000.
(the sum you suggested) for twenty-four months (the
period you suggested), we made it \$4,000. for
fourteen months. This was done for the following
reason:

The Federal income tax exemptions of \$300. a month
provided in Section 117 of the Internal Revenue Code of
1954 apply only for thirty-six months in the lifetime of
the individual scholar. Hence, since it would be prudent--
from your point of view--not to "use up" more of your
possible thirty-six months than now is necessary, your grant
is specified to be for a period of fourteen not twenty-four
months. Because 14 times \$300. is more than \$4,000.,
your Fellowship grant should be wholly exempt from Federal
income tax.

All good wishes, from

Sincerely yours,



Henry Allen Moe
President

M:s

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 FIFTH AVENUE
NEW YORK

HENRY ALLEN MOE
PRESIDENT

17 April 1962

Dr. Hildegarde Howard Wylde
1545 West 111th Street
Los Angeles 47, California

Dear Dr. Wylde:

I have the honor to inform you that the Foundation has awarded you the Fellowship you requested. Your grant is recorded in the Minutes of the Board of Trustees, as follows:

Proposed studies: Paleornithological studies of the late tertiary and of the quaternary periods in the western United States.

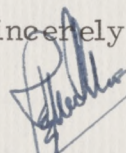
Period: Fourteen months from April 1962.

Grant: Four thousand dollars (\$4,000.).

Will you please, at your earliest convenience, send us a note of acknowledgement? Attached hereto is a memorandum designed to answer questions concerning the Guggenheim Fellowships.

With all good wishes, I am

Sincerely yours,



Henry Allen Moe

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 Fifth Avenue New York City 17

MEMORANDUM FOR FELLOWS · 1962

This memorandum is written to anticipate some of the questions which may arise during the period of your Fellowship:

You are notified that the Foundation has granted your request for assistance to carry on the studies which you proposed in your application. The funds granted to Fellows are gifts by the Foundation to assist them to pursue their own plans for self-improvement, to help them to do what they want to do to advance their own training, education and development.

Hence, it is expected that Fellows, during the periods of their Fellowships, will occupy themselves, under the freest possible conditions, with the studies, research or creative activities to further which they requested the Foundation's assistance and for which their Fellowships were granted.

In the event that a Fellow desires to resign or withdraw from his Fellowship during its term, equitable arrangements will be made to fit the particular circumstances.

Shortly before Fellows take up their Fellowships, they are given Letters of Appointment, bearing the seal of the Foundation, indicating the periods for which they are appointed, stating the fields of study in which they intend to occupy themselves, and recommending them as distinguished students to the esteem, confidence, and friendly consideration of all persons to whom they may present their letters.

It is requested of Fellows that they keep the office of the Foundation informed of their addresses.

Shortly before Fellows enter upon their Fellowships, it is suggested that they should, for their own protection, be examined by a responsible physician and that copies of their physicians' reports on physical fitness should be sent to the Foundation.

The grant stated in the attached letter is your total grant from us. It is a gift that you may use as you wish to assist your studies: we want no accounting whatever of its use.

However, as with all payments of money nowadays, income tax questions may arise; and within the next few days we shall send you a memorandum on that subject, as related to Guggenheim Fellowship grants.

Henry Allen Moe
President

1545 West 111th Street
Los Angeles 47, Calif.
April 20, 1962

Dr. Henry Allen Moe, President
John Simon Guggenheim Memorial Foundation
551 Fifth Avenue, New York, N.Y.

Dear Dr. Moe:

The most welcome news contained in your communications of April 17 is at hand. I am very gratified that the Foundation felt my application worthy of so liberal a grant. My heartfelt thanks are extended to the Foundation, and to you in particular for your part.

Thank you, also, for the explanation regarding income tax procedures. I hadn't heard of the 36-month limit on tax exemption for grants of \$300 per month. Do I understand that I shall receive the grant from the Foundation on a monthly basis? Or would half be sent in a lump sum in 1962, the other half in 1963?

I plan to leave for Washington, D.C. about the 28th of May, returning about the 28th of June. During that time, I plan to work at the National Museum, attend the American Association of Museums meeting in Williamsburg, and the International Ornithological Congress in Ithaca (where I shall give a paper on fossil birds), and possibly pay a brief visit to other museums if I find it essential to consult some collection at this time. My particular concern in this trip, however, is the examination of the National Museum types, and the contacts with other scientists.

If the Foundation plans monthly remittances, it might be advisable to double up on one monly check rather than to have one arrive during the time I shall be away from home. It would be very helpful to me to receive enough early in May to cover the initial cost of the flight east and hotel bills in part -- roughly \$500.

Regarding the physician's report requested: our family for years has had a family doctor (perhaps I should say a family of family doctors, for such it is, and they now cover three generations and many fields) with whom we are in regular contact. Consequently the necessity for an extensive physical examination is not apparent. However, my particular doctor in the family is having urinalysis and blood test made, which, with blood pressure and a statement for her, will, I trust be sufficient for the requirements of the Foundation.

With every hope that my forthcoming work will prove worthy of the Foundation's trust in me, I am

Very sincerely yours,

~~Hildegard~~ Hildegard Howard, Wyld

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 FIFTH AVENUE • NEW YORK • N. Y.

April 24, 1962

Dr. Hildegard Wylde
1545 West 11 Street
Los Angeles 47, California

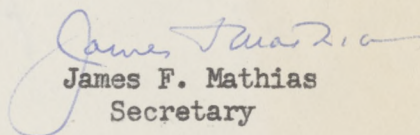
Dear Dr. Wylde:

Thank you for your letter of April 20 acknowledging your Guggenheim Fellowship. It is a pleasure to welcome you to the company of Guggenheim Fellows--the distinguished company, as we think.

We shall send you shortly information concerning our procedures for payment of grants.

With all good wishes, I am

Sincerely yours,


James F. Mathias
Secretary

M:e

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 FIFTH AVENUE • NEW YORK • N. Y.

April 30, 1962

Dr. Hildegard Wylde
1545 West 111th Street
Los Angeles 47, California

Dear Dr. Wylde:

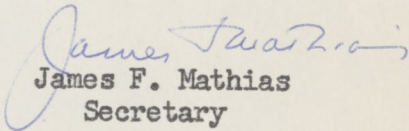
This note is written to let you know about our usual procedures for payment of Fellowship grants. I think the mimeographed sheet I am appending will supply you with the information you will need. If you have questions, please ask them.

We prefer to arrange payments so that they may be made by the first of the month that begins any quarter of a Fellowship year. And we begin planning payments about the 15th of the month preceding the due date. Thus, we need to have any change of address, or instructions about payments, by the middle of the month before the payment is due.

I think I should add that we are always willing to alter any schedule of payments in order to suit a Fellow's convenience. We look forward to receiving your instructions, in course.

With all good wishes, I am

Sincerely yours,


James F. Mathias
Secretary

lb

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 Fifth Avenue

New York City 17

Memorandum Concerning Payment of Fellowship Grants

Our usual procedure is to establish in advance a schedule of payments which will be convenient for each Fellow. Before you make up your mind about your schedule of payments, we suggest you consider the income-tax memorandum we have sent you. This schedule may be changed in the course of your Fellowship, if you decide you wish to change it.

Quarterly Payments

Payments are generally made in quarterly installments. It is not feasible for us to arrange monthly payments of grants.

Most Fellows in the United States or abroad prefer us to deposit installments directly to their U.S. checking accounts. We make such payments about a week before the first of the month that begins any quarter of a Fellowship.

In case of foreign travel, a Fellow may prefer to receive installments of his grant in the form of American Express travelers cheques. It is easy for us to arrange delivery of Travelers cheques abroad.

If a Fellow opens an "external account" in England or a dollar account elsewhere (where dollar accounts are permitted) we can arrange for deposit of payments to that account.

Expenses Incident to Fellowship

Fellows may draw against their grants in advance for payment of traveling expenses, or other expenses, if they wish to do so. A request for such an advance should not be made until a reasonable time before funds are actually to be expended for such purpose.

The balance remaining in a Fellowship grant may then be paid in quarterly installments, as outlined above.

Date of Beginning

Will you please send us a note a couple of weeks in advance confirming the exact date you plan to begin your Fellowship studies? Also, then, please instruct us when and how you wish your grant paid.

Addresses

It is requested of Fellows that they keep the office of the Foundation informed of changes of address as they occur -- or, preferably, before they occur -- during the course of their Fellowship studies.

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 FIFTH AVENUE • NEW YORK • N. Y.

April 30, 1962

Dr. Hildegarde Wylde
1545 West 111th Street
Los Angeles 47, California

Dear Dr. Wylde:

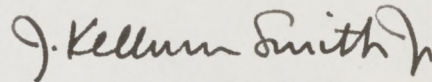
Here is the promised memorandum on the subject of federal income tax in relation to your Fellowship grant. We suggest that you keep it on file, together with your copy of the budget sent us. You will, I feel sure, find both documents useful at income-tax time.

Your grant presents no federal income-tax problem -- you will be glad to know -- for it does not exceed \$300 a month and is therefore exempt unless you have used up, or will use up during your tenure of your Fellowship, your thirty-six months of lifetime exemption.

Mr. Mathias is sending you details of our payment procedures.

With all good wishes, I am

Sincerely yours,



J. Kellum Smith, Jr.
Assistant Secretary

JKS:ew

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

551 Fifth Avenue

New York City 17

April 30, 1962

To: Dr. Hildegard Wylde
1545 West 111th Street
Los Angeles 47, California

Following is an extract from the Minutes of a meeting of the Board of Trustees of the John Simon Guggenheim Memorial Foundation held on 11 April 1957, which was re-enacted in its entirety at a meeting of the Board of Trustees of the Foundation held on 17 April 1962. It is sent you in reference to the question of Federal income tax on your Fellowship grant. "Mr. Magill," referred to in the Minute, is Mr. Roswell Magill, who is a Trustee of the Foundation and is an eminent income tax lawyer. The Minute follows:

In the matter of the question of the taxation of the Foundation's Fellowship grants, Mr. Magill made a statement to the following effect:

Section 117 of the Internal Revenue Code of 1954 provides that fellowship grants, such as this Foundation's, are excludable from gross income up to \$300. a month for 36 months. The Treasury Department's Regulations further provide for the exclusion of any amount "which is specifically designated to cover expenses for travel (including meals and lodging while traveling and an allowance for travel of the individual's family), research, clerical help, or equipment," . . . "provided that such expenses are incident to" the Foundation's fellowship grants. The Regulations further provide: "The requirement that these expenses be incident to the scholarship or the fellowship grant means that the expenses of travel, research, clerical help, or equipment must be incurred by the individual in order to effectuate the purpose for which the scholarship or the fellowship grant was awarded."

The Secretary stated that he had requested budgets from all persons now appointed to Fellowships; that he had asked them -- in terms of the language of Section 117 of the Internal Revenue Code of 1954 and of the Treasury Department's Regulations -- what sums would be needed for transportation for the Fellow (and his family, if any) for his meals and lodging while travelling, for research, clerical help and equipment -- all incident to the purposes for which it was contemplated that the Fellowship would be granted.

Whereupon, after discussion, it was upon motion duly made, seconded and carried

RESOLVED, That the sums requested by the candidates, who are now appointed to Fellowships, to cover expenses for travel (including meals and lodging while traveling and an allowance for travel of the individual's family), research, clerical help, or equipment, be, and hereby are, specifically designated to be appropriated for such purposes incident to the Fellowship grant.

The Secretary was authorized and directed to inform each Fellow accordingly, and to inform him also of the Treasury Department's Regulation as follows:

"The requirement that these expenses be incident to the scholarship or the fellowship grant means that the expenses of travel, research, clerical help, or equipment must be incurred by the individual in order to effectuate the purpose for which the scholarship or the fellowship grant was awarded," and that "the exclusion provided" as above stated "is applicable only to the extent that the amount received for travel, research, clerical help, or equipment, is actually expended for such expenses by the recipient during the term of the . . . fellowship grant and within a reasonable time before and after such term."

In addition to the above-quoted Minute, the following statements also may be useful to you:

On the need for your keeping accounts and getting vouchers for expenses:

In connection with the above-quoted provisions of the Treasury Department's Regulations concerning expenses incident to your Fellowship grant, you are advised that, if you intend to claim that certain of your Fellowship expenses are excludible from gross income, it will be important for you to keep careful accounts of such expenses during your Fellowship. You ought, for United States income tax purposes, not only to keep careful accounts of your expenses, but also get vouchers, whenever possible, for those expenses incurred "for travel, research, clerical help, or equipment which are incident to such . . . fellowship grant."

We do not want to see these accounts and vouchers, for our position is, as it always has been, that all the money you get from us is a gift which you may use as you please; but we are simply suggesting that you doubtless will find such accounts and vouchers useful in your dealings with the Federal income tax authorities.

On the differing views of the question of taxation of Guggenheim Fellowship grants:

The Tax Court of the United States, in the case of *Stone v. Commissioner of Internal Revenue* -- a case under the Internal Revenue Code of 1939 -- held that a Fellowship grant paid by the John Simon Guggenheim Memorial Foundation in the year 1950 was a gift and not income. However, in its Regulations, the Treasury Department has taken the position that,

irrespective of the provision in the Internal Revenue Code exempting gifts from income tax, the question whether a fellowship grant is taxable is controlled solely by Section 117, and that to the extent a fellowship grant exceeds the limitations of that Section, as construed in the Regulations, it is includible in the Fellow's gross income, subject to tax.

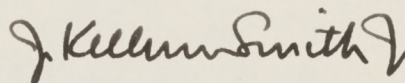
On the other hand, as we informed you when we notified you of the award of your grant, the Foundation takes the position that Guggenheim Fellowship grants are tax exempt gifts and, therefore, are not includible in gross income; that they are not subject to any of the conditions or qualifications laid down in Section 117 for the partial exemption of income payments; and that Section 117 should be construed so as to apply only to scholarship or fellowship grants that are not gifts.

Practical suggestions in relation to the above-stated differing views:

If the amount of your grant is not in excess of the amount (\$300.00 a month plus excludible expenses) that may be excluded from your gross income under Section 117, the different positions taken by the Treasury Department and the Foundation need not be of any concern to you. If, however, the amount of your grant is in excess of the amount that may be excluded from your gross income under Section 117 and the Regulations, you are advised that you should report the excess as income on your Federal income tax return. Should you wish to contest the Treasury Department's position by claiming that the full amount of the Foundation's grant to you is an exempt gift, you may do so by filing a timely claim for refund after payment of the tax. For your claim for a refund to be timely, it must be filed (on Form 843, which can be obtained at the offices of your District Director) within three years from the date when your tax return is filed or within two years from the time you pay the tax, whichever is later.

If you have questions concerning this matter, I suggest that you consult your local tax adviser or District Director: we cannot help you further in reference to such questions.

This memorandum is sent to you at this time as an item for you to consider when you give us instructions for the payment of your Fellowship grant.



J. Kellum Smith, Jr.
Assistant Secretary

1545 West 111th St.
Los Angeles 47, Calif.
May 1, 1962

Mr. James F. Mathias, Secretary
John Simon Guggenheim Memorial Foundation
551 Fifth Avenue
New York, New York

Dear Mr. Mathias:

Thank you for your letter of April 30 relative to the schedule of payment of Fellowship grants.

As I wrote Dr. Moe earlier, I plan to leave for Washington, D.C. about May 29, spending a month in the east -- studying at the National Museum and attending two professional conventions. I had hoped that it might be possible to receive a first check from the Foundation in time to pay for transportation to and from Washington, and part of hotel bills for the trip.

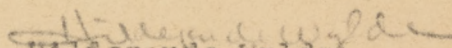
I note from your memorandum that quarterly payments are the usual, and would reach the Fellow about the first of the month. But that an advance can be made for travel expenses. May I, therefore, suggest that, as I will leave before June first, and will be moving about during the month of June, it would be unwise to attempt a full quarterly payment until July first. However, if possible, I would appreciate an advance of \$500 (by May 15?) for travel expenses. If this plan meets with your approval, payments might work out as follows:

\$500	(for travel)	May 15, 1962
750	quarterly payment,	July 1, 1962
750	"	October 1, 1962
\$2000	total for 1962	
750	quarterly payment,	AFTER January 1, 1963
750	"	April 1, 1963
500	remainder (for months of July, Aug., 1963)	on July 1, 1963

TOTAL GRANT \$4000

Does this plan sound reasonable to you?

Yours sincerely,


Hildegard Wylder

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 FIFTH AVENUE • NEW YORK • N. Y.

May 3, 1962

Dr. Hildegard Wylde
1545 West 111th Street
Los Angeles 47, California

Dear Dr. Wylde:

Many thanks for your letter of May 1. Later this month we shall send you your Letter of Appointment stating June 1, 1962 as the date of beginning of your Fellowship studies.

In accord with your wishes, we shall ask the Treasurer to send you now a check for \$500 for travel expenses.

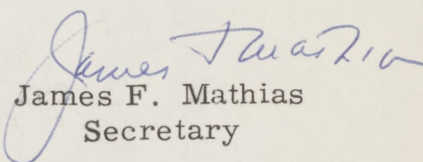
We shall plan to pay the balance of your grant in installments as follows:

\$750 by July 1, 1962
\$750 by October 1, 1962
\$750 after January 1, 1963
\$750 by April 1, 1963
\$500 by July 1, 1963

All checks will be sent directly to your home address unless we receive other instructions from you.

With all good wishes.

Sincerely yours,


James F. Mathias
Secretary

JFM:bg

1545 West 111th St.
Los Angeles 47, Calif.
May 13, 1962

Mr. James F. Mathias, Secretary
John Simon Guggenheim Memorial Foundation
551 Fifth Avenue
New York

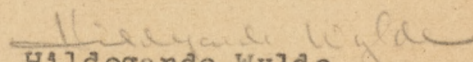
Dear Mr. Mathias:

Your letter of May 3 with schedule of the grant payments, and the treasurer's check for \$500 for travel expenses are at hand. Thank you so much for attending to everything to quickly.

I note that the first quarterly payment is to be "by" July 1, 1962. I presume that would be no more than a day or two before the first? I do not return from the east until June 27th, and would prefer not to have the check come while I am away.

I also note that you will be sending me a Letter of Appointment before the end of May. If this will require an answer from me, it should be mailed so as to reach Los Angeles not later than May 28, or sent care of Dr. Alexander Wetmore to the U.S. National Museum, Washington, D.C. where I could pick it up on June 4. Incidentally will this June 1, 1962 date be the one I will use for income tax purposes, or wouldn't the government care exactly when the appointment starts so long as the grant doesn't average more than \$300 per month in a calendar year?

Yours sincerely,


Hildegard Wylde

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 FIFTH AVENUE
NEW YORK

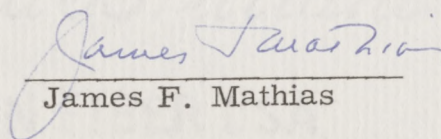
JAMES F. MATHIAS
SECRETARY

May 16, 1962

I HEREBY CERTIFY, That Dr. Hildegarde Howard Wylde, Research Associate in Vertebrate Paleontology, Los Angeles County Museum, Los Angeles, California, has been appointed by the Trustees of the John Simon Guggenheim Memorial Foundation to a Fellowship for the period from June 1, 1962 to July 31, 1963.

During this period Dr. Wylde will devote herself to paleornithological studies of the late tertiary and of the quaternary periods in the western United States.

Dr. Wylde is respectfully recommended by the John Simon Guggenheim Memorial Foundation to the esteem, confidence and friendly consideration of all persons to whom she may present this letter.


James F. Mathias

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 FIFTH AVENUE • NEW YORK • N. Y.

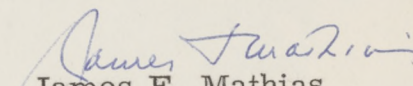
May 16, 1962

Dr. Hildegard H. Wylde
1545 West 111 Street
Los Angeles 47, California

Dear Dr. Wylde:

With your Letter of Appointment, enclosed,
go the best wishes of all of us for a happy and
fruitful Fellowship.

Sincerely yours,


James F. Mathias
Secretary

M:n
encl.

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 FIFTH AVENUE • NEW YORK • N. Y.

May 17, 1962

Dr. Hildegard Wylde
1545 West 111th Street
Los Angeles 47, California

Dear Dr. Wylde:

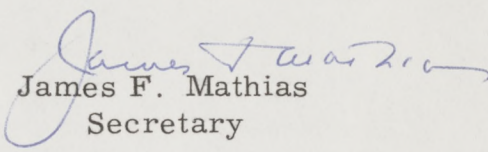
Thank you for your letter of May 13 acknowledging receipt of the Treasurer's check.

We shall see to it that the quarterly installment of your grant due July 1 arrives in Los Angeles after June 27. Your Letter of Appointment is on its way. It was mailed yesterday.

You guess rightly about the way the government will look at your Fellowship grant for tax purposes: you may exclude your entire grant from taxable income because its total amount, divided by the number of months for which it is awarded, is less than the \$300 per month which you are allowed. It makes no difference when you actually receive the installments, or when your Fellowship formally begins.

With all good wishes.

Sincerely yours,


James F. Mathias
Secretary

JFM:bg

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 Fifth Avenue New York City 17

May 23, 1962

MEMORANDUM TO FELLOWS

Enclosed is a draft of a biographical statement to be published in the Foundation's next Report, with a sample page from a previous Report. Will you please make corrections and additions to the draft, and return it to us at your earliest convenience. An addressed stamped envelope is enclosed.

Josephine Leighton
(Mrs.) Josephine Leighton
Editor of the Report

Dr. Hildegard H. Wylde
1545 West 111th Street
Los Angeles 47, California

*Ref'd
5.26.62*

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION
551 FIFTH AVENUE • NEW YORK • N • Y •

June 19, 1962

Dr. Hildegard Howard
1545 West 111 Street
Los Angeles 45, California

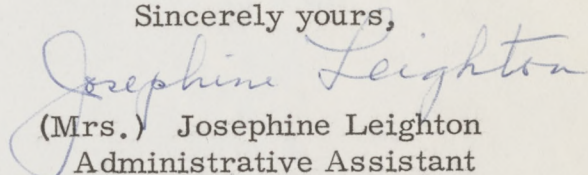
Dear Dr. Howard:

Thank you for the return of your biographical statement; we shall make the corrections and additions you note.

It is entirely agreeable to us that we make your main entry in our records under the name of Howard, and simply make a cross reference to Howard under Wylde. This has been our practice with married Fellows who use their maiden names professionally.

With thanks and best wishes, I am

Sincerely yours,


(Mrs.) Josephine Leighton
Administrative Assistant

L:n

SMITHSONIAN INSTITUTION
SCIENCE INFORMATION EXCHANGE



Suite 311 Universal Building
1825 Connecticut Avenue, N.W.
Washington 9, D. C.

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July 1962

INTRODUCTION

The Science Information Exchange of the Smithsonian Institution is a clearinghouse for information on current scientific research actually in progress. It is supported by Government agencies having major research and development programs. In addition, more than 70 non-government organizations with national research programs participate. The mission, scope, and policy guidance are formulated by a Governing Board of Federal agency representatives in conjunction with the Smithsonian Institution. The Director of the Exchange, assisted by a staff of scientists, is responsible for its operations.

The Exchange differs significantly from other library, documentation and technical reference services in two respects. First, it is concerned only with research actually in progress. It does not register progress reports, abstracts, or other forms of published research results. Second, the Exchange compiles numerical and technical information for program management purposes at the request of directors and research administrators of supporting and cooperating agencies.

ORIGIN AND HISTORY

In 1949 rapidly expanding programs in medical research prompted several Government agencies to join in establishing the Medical Sciences Information Exchange. Its mission was to facilitate effective planning and management by promoting the timely exchange of information on the current research activities of Government and non-government agencies and institutions. During the next few years related areas of biological research were added to the medical sciences and the name "Bio-Sciences Information Exchange" was adopted in 1953. At this time it came under the direction of the Smithsonian Institution. In 1960 it was renamed the Science Information Exchange to signify the addition of research information in the physical sciences.

The Division of Physical Sciences currently emphasizes basic and applied research supported by Federal agencies in the fields of chemistry, physics, mathematics, earth sciences, materials, and electronics. As this collection develops into a representative and useful body of information, emphasis will be directed toward non-government research and development. It is anticipated that a representative body of information in the fields of physical sciences research will be available late in 1962.

Since 1949 the Division of Life Sciences has accumulated about 250,000 records of research grants and contracts in biological, psychological, medical and sociological sciences. Approximately 35,000 of these projects are currently active. This collection continues to grow at a substantial rate as new cooperating organizations begin to register their programs.

OPERATION

The Exchange system for registering, indexing, organizing, and retrieving information is complex since it involves not only the collection of data from many different sources, the retrieval of technical material reference in detail, but also the compilation of information for program management purposes.

Information about research planned or in progress is registered on a single-page Notice of Research Project (see page 5). This is the basic document of the Exchange, and includes: (1) the name of the granting agency, (2) names and addresses of principal and associate investigators, (3) location of the work, (4) title, (5) a 200-word summary, and (6) the amount and duration of the grant or contract.

These items are coded and indexed to visible and electronic-computer files to provide ready access to any item or varied combinations. Fiscal data are privileged information submitted by and released only to officials of authorized cooperating agencies. All information in the Exchange is restricted from unauthorized publication or publication reference.

INFORMATION SERVICES

Research investigators associated with recognized research institutions may request information on who is currently working on a specific problem. These questions are answered by a staff of professional scientists who select and forward copies of pertinent Notices of Research Projects.

Research directors and administrators of cooperating agencies may request combinations of data and subject matter information compiled to meet their specific need. This kind of information, furnished only on demand, is developed in each case to meet problems in program management. Since the possible applications are many, the potential value of the Exchange in this respect is best appreciated by consultation with staff members or by a visit to the Exchange.

For further information about its operations and services, you are cordially invited to write, telephone or visit:

THE SCIENCE INFORMATION EXCHANGE

Suite 311 Universal Building

1825 Connecticut Avenue, N.W.

Washington 9, D. C.

Telephone

NAtional 8-1810

Extension 511

NOTICE OF RESEARCH PROJECT
SCIENCE INFORMATION EXCHANGE
SMITHSONIAN INSTITUTION

NOT FOR PUBLICATION OR
PUBLICATION REFERENCE

PROJECT NO. (Do not use this space)

AF 2987

SUPPORTING AGENCY:

Goldbar Foundation

TITLE OF PROJECT:

Pharmacological Studies on Myocardial Cells in Tissue Culture

Give names, departments, and official titles of PRINCIPAL INVESTIGATORS and ALL OTHER PROFESSIONAL PERSONNEL engaged on the project.

John Q. Public, M.D., Ph.D., Dept. of Pharmacology
Roslyn Hammacker, M.S., Ph.D., Dept. of Pharmacology

NAME AND ADDRESS OF INSTITUTION:

Colebrook Institute of Scientific Research
142 Gilberry Street, N.W., Washington 4, D. C.

SUMMARY OF PROPOSED WORK - (200 words or less. Omit confidential data.) - In the Science Information Exchange summaries of work in progress are exchanged with government and private agencies supporting research, and are forwarded to investigators who request such information. Your summary is to be used for these purposes.

It is the purpose of this investigation to study the site and mechanism of action of several classes of pharmacologic agents, with the use of the spontaneously beating layer of rat myocardial cells in tissue culture as a test system. The rate, rhythm and forcefulness of the beat will be used as one criterion of activity and of optimal dosage level. Samples of tissue will be fractionated and enzyme systems representative of a wide variety of cellular metabolic functions will be isolated. Diminution in the activity of an enzyme system while under the influence of a particular drug will be compared with that obtained with known inhibitors of these systems; wherever possible the particular metabolic step involved will be identified.

Initially, the oxidation phosphorylation and glycolytic systems will be examined in such sheets of cells, established after the method of Harary (1962 Federation meetings). Submitochondrial enzymatic units will be prepared by sonic oscillation and isolated by ultracentrifugation. Simultaneous measurement of phosphorylative and glycolytic enzymes from the same tissue sample should provide an indication of cellular control mechanisms. Antibiotics (Antimycin A, Dianemycin) and barbiturates (amobarbital, pentobarbital) will be of interest as inhibitors of oxidative phosphorylation. Glycolysis-respiration interrelationships will be correlated with the nature of the heart beat observed.

It is hoped that later states of this work will clarify the cellular basis of action of guanidines (hypoglycemic agents), catecholamines, thyroid hormone, and the digitalis glycosides.

SIGNATURE OF
PRINCIPAL
INVESTIGATOR

John Q. Public

Identify the Professional School (medical, dental, public health, graduate,
or other) with which this project should be identified:
Non-profit Institute

SCHOOL

INVESTIGATOR — DO NOT USE THIS SPACE

SAMPLE COPY

How To Use the Science Information Exchange:

Write or telephone the Exchange defining the specific research or problem on which information is desired. The Exchange will promptly forward pertinent Notices of Research Projects. A concise definition of the problem will insure the best selection of information.

How To Register Research With the Exchange:

Write a summary, 200 words or less, of your current research on a Notice of Research Project form (see page 5) and mail it directly to the Exchange. Forms may be obtained from the Exchange without charge.

The summary is used as a means of communication. It provides information on research work not yet published and not otherwise available. The summary should describe the problem clearly, show relationships to other aspects or to broader areas of research, and should identify techniques, special materials or organisms used, etc.

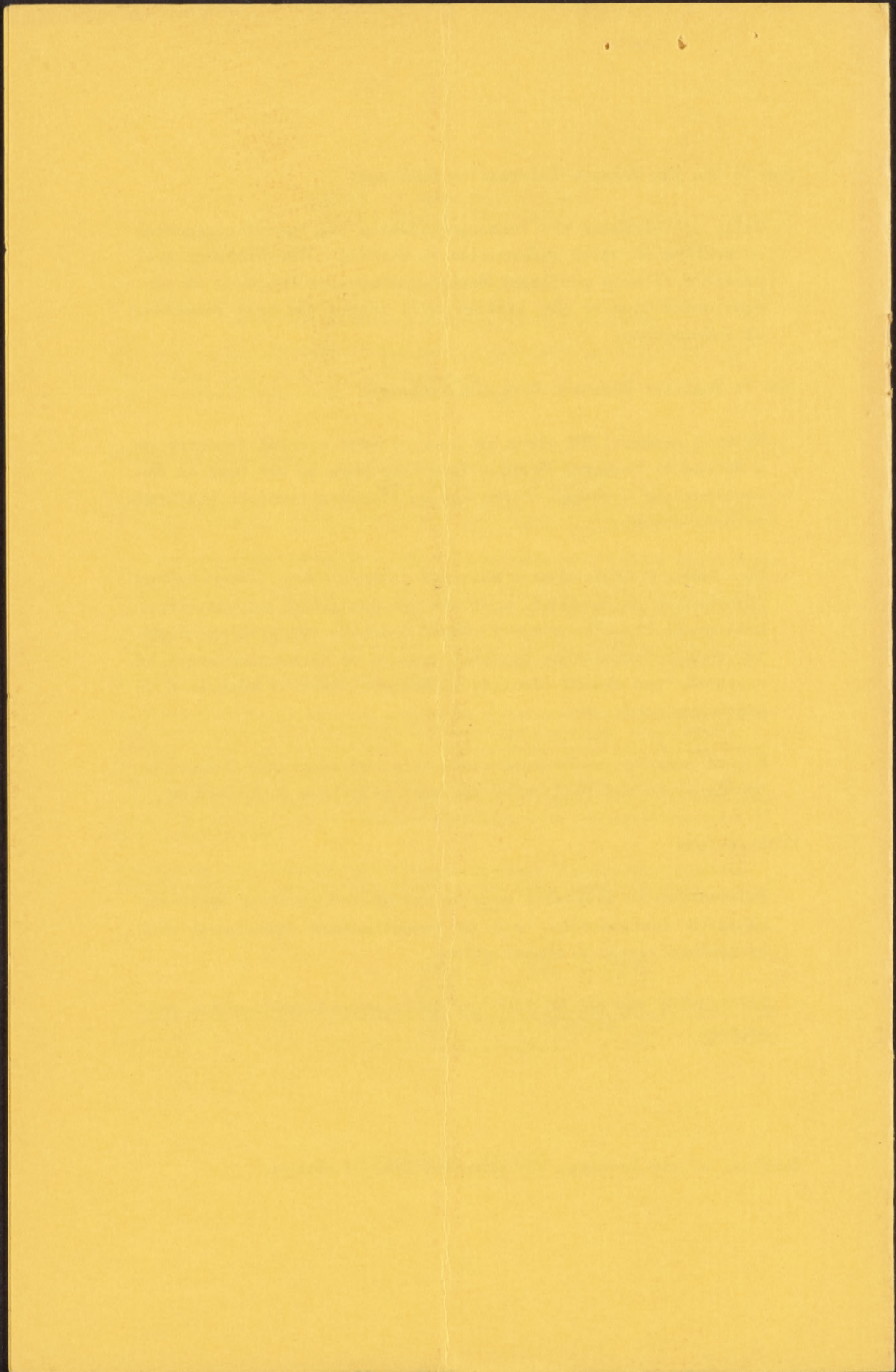
A good summary can be more completely and concisely indexed by the Exchange and will enjoy the most effective distribution.

Restrictions:

Information is available only to recognized granting agencies, research institutions, and to investigators associated with recognized research organizations.

Information may not be used for publication or publication reference.

Services of the Exchange are provided free of charge.



SMITHSONIAN INSTITUTION
SCIENCE INFORMATION EXCHANGE

NAtional 8-1810, Extension 514

Mailing Address

SUITE 311 UNIVERSAL BUILDING
1825 CONNECTICUT AVENUE, N.W.
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MONROE E. FREEMAN, PH.D., *Director*

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SPACE ADMINISTRATION
FEDERAL AVIATION AGENCY

20 August 1962

Dr. Hildegarde Howard Wylde
Los Angeles County Museum
Los Angeles, California

Project Number TES 602

Agency Guggenheim (John Simon)
Memorial Foundation

Dear Doctor Wylde:

Your cooperation in completing the enclosed Notice of Research Project at your earliest convenience would be greatly appreciated by the Science Information Exchange and the agency which supports your research. Please return the form directly to the Science Information Exchange.

Your Notice will be included in the collection of up-to-date information on research actually in progress which is maintained by the Exchange for the scientific research community. This information is for officials responsible for the management of grant programs, as well as the scientists actually engaged in research. The enclosed brochure describes this service. Further inquiry in person or by mail is welcome and will receive prompt attention.

Please note the following suggestions for completing the form:

1. The summary of your proposed work (200 words or less) should describe the research problem clearly, indicate purposes or scope, showing any direct relationships to other aspects or broad areas of research, and identifying techniques and/or organisms to be used. The more informative the summary, the more complete the indexing of it will be, which will lead to a more effective distribution within the recognized scientific research community.
2. Your summary should not contain any confidential information, nor should it include progress reports nor research results.
3. If you have submitted a Notice of Research Project for this particular project in recent months, do not fill out this form again, but please note the approximate date it was submitted to us.

4. Although you may not yet have had notice of the final action on your application we would appreciate your completing this form so that it will be available as soon as we receive the activating information from the supporting agency.

Information concerning ongoing research in specific areas of your particular field is available without charge. It is only necessary to write or telephone the Exchange, defining as concisely as possible the problem in which you are interested. Pertinent Notices will be forwarded. This service is only available to investigators associated with recognized research organizations, and the information may not be used or referred to for publication purposes without the express permission of the principal investigator whose work is concerned.

Thank you for your cooperation with the Exchange.

Sincerely,

Monroe E. Freeman.

Monroe E. Freeman
Director

Enclosure

This project involves a number of separate problems concerning prehistoric bird life of southwestern United States and Mexico. All are problems that center basically on materials in the fossil collections of the Los Angeles County Museum, but will be extended to include related materials in other institutions.

Briefly, the problems concern:

Analysis of Miocene shearwaters of California

Review of Pliocene birds from San Diego, California, in the light of new material now available.

Analysis of a new early Pleistocene avifauna from the Anza desert, San Diego County, California.

Continuing study of special problems concerning the Pleistocene avifauna of Rancho La Brea, ~~California~~

Study of unrecorded Pliocene and Pleistocene birds from two or three localities in Mexico.

Analysis of a new Quaternary cave fauna from New Mexico.

Study of Pleistocene and Pliocene swan-sized anseriforms.

Study of relationships and possible multiplicity of species of the "Pigmy Goose", Anabernicula, now recorded from both Pliocene and Pleistocene deposits.

~~Study of Pleistocene avifaunas from the California Channel Islands.~~

These several problems will be undertaken with an overall view to seeking information of avian distribution and evolution, particularly as it applies to understanding the bird life of the southwest.

To Science Information Exchange
Room 313 Universal Bldg.
1825 Connecticut Ave. N.W.,
Washington 9, D.C.

Sept-1, 1962

LITERATURE for the travelling geologist

a proposal by
Lincoln Dryden
Bryn Mawr College

With summer upon us, and perhaps the chance to take another trip across the United States, the perennial problem of tourism and geological literature is again upon me.

The problem is: when passing through a given area, I want *the* report on that area, geologic map and all, but I certainly don't want to buy the report. Once past the area, I no longer want the report, however acquired; I can't throw it away, in cold blood, and I am probably stuck with it for lack of cardboard and string and labels and postoffices. Indeed the identical report is probably in the Library back home, so I don't want another copy of it under any circumstances.

The problem may not be so serious in our own country, for it is easy to find out what is available, and it is also easy to make yourself understood. But in two brief trips to the Alps, apart from a battered first-edition of Collet, I was completely ignorant of local details. In a number of places, I made an infantile attempt to work out Alpine structure and stratigraphy from scratch!

It's no use basking in the assurance that *you* would have done the whole thing better. If you can arrange a personally conducted tour, home or abroad, you win. But how about this method, all on your own?

Six months before leaving for, say, Switzerland, you write to the Swiss Survey and ask: "What reports are available on a rental basis?" Back comes a list, which gives all details. You pick out one, say, the Geology of Geneva and Vicinity. The list tells you that the charge will be, in dollars, \$2.00, post-free, for the use of the report for one month, and a deposit of \$10. You send \$12 to the Survey, and instruct them to mail the report to you at General Delivery, some small convenient, country postoffice, by June 1st. It arrives in a stout carton, which needs only the address card turned around to show the Survey address on the other side (proper postage already affixed), and then it's mailed at any country mailbox or post-office. When it arrives safely, map intact, and most pages remaining, the deposit is returned to you, at whatever address you gave. The Survey's expenses for postage

SURVEY KILAUEA FILM WINS AWARD

The U. S. Geological Survey film depicting the 1959-60 eruption of Kilauea was awarded first prize in the "Nature and Wildlife" section at the 1962 American Film Festival. The Festival was held in New York under the sponsorship of the Educational Film Library Association.

The eruptions filmed started in November 1959 at Kilauea Iki and culminated with a flank eruption at Kapoho which ended in February 1960. The script was written by the Survey's Edwin Roedder and staff members at the U.S.G.S. Hawaii Volcano Observatory.

Film copies, including reel, can, and carrying case, may be purchased from the Motion Picture Service, Department of Agriculture, Washington 25, D. C., for \$111.35. Price includes mailing. A limited number of loan prints are also available from the Map Information Office, Geological Survey, Washington 25, D. C. for free circulation to educational institutions and other specialized earth science groups.

Faust Addresses London Meeting

Lawrence Y. Faust, President of the Society of Exploration Geophysicists recently attended the 22nd annual meeting of the European Association of Exploration Geophysicists in London. He was one of the featured speakers at the meeting. Dr. Faust is Geophysical Supervisor for foreign operations for the Amerada Petroleum Corporation, Tulsa.

Guggenheim Fellowship Awarded

Dr. Hildegard Howard, Research Associate in Vertebrate Paleontology at the Los Angeles County Museum was recently awarded a \$4,000 fellowship by the John Simon Guggenheim Memorial Foundation to enable her to continue her research on fossil birds.

and money order would be covered in the use-fee.

This is where I get off, and the Organization Man takes over. For our country, why can't the USGS stoutly bind 10 or 20 copies of regional reports (mounted maps) and have them available? And why can't we have some sort of international agreement about it? It's a mere matter of details, now that I have worked it all out.

Won't the AGI carry on from here?

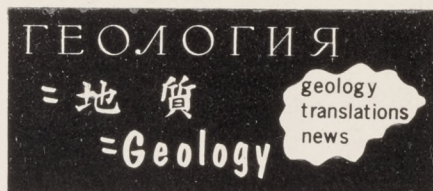
flows which are helpful in local correlation. As in most work of a similar nature, however, the most reliable correlations are based upon walking the outcrop and the use of unusual marker beds or sequences of beds. Individual flows have been traced laterally for 90 miles or more in the area studied, according to Maurice Grolier, a U.S.G.S. geologist currently engaged in detailed geological work in the region.

The pre-Eocene Swakane gneiss and the Chelan batholith were studied in excellent exposures between Chelan and Orondo, north of Wenatchee. The complexity of lithology and structure in these older rocks is in strong contrast to the lithologic uniformity and broad warping of the flood basalts.

In the valleys and canyons, particularly north of Wenatchee, glacial deposits are widespread, and the remnants of remarkable high terraces are found. On the Waterville plateau, higher and to the east, the southern limit of the Okanogan Lobe of the continental glaciers is marked by an extensive hummocky moraine dotted with huge blocks of basalt—"haystack rocks"—as much as 100 feet wide. The distribution and degree of weathering of the haystack rocks have been used to determine the relative ages as well as the extent of different ice advances. East of Waterville, near the Grand Coulee, Dr. Waters pointed out the contacts of the Okanogan moraine with the older Spokane moraine, and the contact of the latter with the underlying Palouse loess.

Judging from the comments of many participants, the field trip was a great success, and Washington State hopes to promote similar activities of regional interest in the future. Obviously many persons would be interested in attending trips led by authorities like Dr. Waters, and certainly there is no end of fascinating geology in the region.

In addition to leading the field trip during his visit, Dr. Waters conducted a seminar on basalt petrography and gave two illustrated lectures in Pullman. The first lecture, "Geology of Mt. Rainier National Park", summarized U.S.G.S. Prof. Paper 444, which was written by Dr. Waters and others and is now in press. The second, "Flood basalts of the Columbia River region", traced the progress of Dr. Waters' work on the occurrence and origin of the tremendous volumes of basalt and related rocks in Washington and Oregon. The lectures were extremely interesting and made many a person wonder how the East can hold any attraction for Dr. Waters, who was born in Waterville and



by Martin Russell, AGI Translations Office

According to a news item in the *New York Times* for February 26, 1962, U.S. geophysicists in January 1962 claimed discovery of the third Van Allen radiation belt two years after Soviet scientists had reported it, and nearly a year after republication of the reports in an American earth sciences translation journal.

On January 19, 1962, the National Aeronautics and Space Administration made public a summary of the findings of Explorer 12 which included record of a radiation belt with an "unexpected boundary" at 40,000 miles. Soviet Academician Anatoly A. Blagonravov explained in a press interview that the existence of a dense belt with energies of 200 to 20,000 electron volts at a distance of 25,000 to 50,000 miles from earth was recorded by Soviet rockets in 1959 and reported early in 1960 in the *Doklady Akademii Nauk SSSR*, geophysics section.

Monday-morning quarterbacks among U.S. geophysicists are invited to check for themselves. The two papers cited by Academician Blagonravov to make his point were issued in translation by the American Geological Institute in April 1961. They are "Ionized Gas and Fast Electrons in the Earth's Neighborhood and in Interstellar Space," pages 580-583, and "Determination of the Electron Concentration in the Ionosphere Using the Rotation of the Plane of Polarization of Radio Waves Emitted from Rockets," pages 584-585, both by K. I. Gringauz and others, in the *Doklady of the Academy of Sciences of the U.S.S.R., Earth Sciences Sections*, volume 132, numbers 1-6, AGI translation issued April 1961 of original dated May-June 1960.

A relatively new publication appears to provide for Japanese scientific literature what the *Monthly Index of Russian Accessions* does for the Russian. It is the *Japanese Periodicals Index, Natural Sciences*, published monthly, in English, by the National Diet Library (1-1 Akasaka, Minato-ku, Tokyo, Japan) and covering about 500 scientific Japanese periodicals.

has succeeded admirably in putting it and its geological story on the map.

P. 36 (1924 grads)
Dec. 1962, Calif. Alumni
mag.

Works Association Conference in New Orleans, in October.

HILDEGARDE HOWARD WYLDE, who retired as Chief Curator of the Los Angeles County Museum in September, 1961, has been awarded a Fellowship with a grant of \$4,000 by the John Simon Guggenheim Memorial Foundation. The grant will enable her to devote a period of 14 months in furthering her research in fossil birds both at the Los Angeles County Museum and at other leading museums in the United States.

Class Secretary: George O. Blowers, 1547 Josephine St., Berkeley.

Robert J. Koshland, 98 Battery St., San Francisco 6.

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JOHN C. COSTELLO, of Akron, Ohio, retired as a director and assistant to the president of Ohio Edison on July 1, 1962.

Women's Secretary: Mrs. F. Wells Pleas, 3333 Woodside Rd., Woodside, Calif. Men's Secretary: Herbert E. Hall, 910 Crocker Bldg. San Francisco.

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JOHN

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GUGGENHEIM

MEMORIAL

FOUNDATION

Fellowships

United States of America

1962

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

*Fellowships to Assist Research
and Artistic Creation*

UNITED STATES OF AMERICA 1962

IN ORDER to improve the quality of education and the practice of the arts and professions in the United States, to foster research, and to provide for the cause of better international understanding, the John Simon Guggenheim Memorial Foundation, established by the late United States Senator Simon Guggenheim and by Mrs. Guggenheim as a memorial to a son who died April 26, 1922, offers Fellowships, to further the development of scholars and artists by assisting them to engage in research in any field of knowledge and artistic creation in any of the fine arts including music, under the freest possible conditions. Grants also will be made to a limited number of persons who need types of assistance, other than those ordinarily comprehended within the term *fellowship*, to bring their intellectual and artistic capacities to still higher levels of quality. The Fellowships will be awarded by the Trustees upon nominations made by a Committee of Selection.

THE FOUNDATION also offers Fellowships — to assist studies to be carried on in the United States of America — to citizens of all the other American Republics, of the Republic of the Philippines, of Canada and of the British Caribbean.

THE FELLOWSHIPS are awarded to men and women of high intellectual and personal qualifications who have already demonstrated unusual capacity for productive scholarship or unusual creative ability in the fine arts. Fellowships in music are awarded only to composers of music and to scholars who propose research into the history or theory of music.

THE FELLOWS are usually of ages between thirty and forty years; but the Committee of Selection also is empowered to nominate persons older than forty and younger than thirty. The Fellowships are open to citizens (or, in exceptional cases, to permanent residents who are not citizens) of the United States, irrespective of race, color or creed.

THE COMMITTEE OF SELECTION seeks evidence that candidates are persons of unusual capacity for research, demonstrated ordinarily by the previous publication of contributions to knowledge of high merit, or that they are persons of unusual and proved creative ability in some one of the fine arts. The Foundation will consult with responsible scholars and artists regarding the ability and promise of the applicants and the value of the studies proposed as bearing on the prospects of their advancing to higher levels of accomplishment through holding the Fellowships for which they apply.

APPOINTMENTS are made ordinarily for one year; but plans which require longer or shorter periods also will be considered.

THE AMOUNT of each grant will be adjusted to the needs of the Fellows, considering their other resources and the purpose and scope of their studies. Members of the teaching profession who have received sabbatical leave on full or part salary are eligible for appointment.

THE FOUNDATION may subsidize the publication of important contributions to knowledge produced by holders of Fellowships; but it does not undertake to aid in publishing all works so produced.

APPLICATIONS for FELLOWSHIPS must be made in writing on or before October 15, 1961, by the candidates themselves, in the form prescribed, addressed to the John Simon Guggenheim Memorial Foundation, 551 Fifth Avenue, New York 17, N. Y. Final selection of Fellows for 1962-63 will be made in April, 1962. Application forms will be mailed upon request.

FELLOWS OF THE FOUNDATION who seek renewals of their Fellowships must apply before February 1, 1962. Suggestions concerning the form of presentation of such applications will be sent on Fellows' requests.

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President

JOHN SIMON GUGGENHEIM MEMORIAL FELLOWS • 1961

MR. HAROLD ALTMAN, Artist, and Assistant Professor of Art and Art Education, University of Wisconsin: Creative drawing and printmaking.

✓ DR. HENRY NATHANIEL ANDREWS, JR., Professor of Botany, Washington University, St. Louis: Studies in paleobotany, particularly of Coal Age plant life.

DR. WILLIAM WEAVER AUSTIN, Professor of Music, Cornell University: Study in the music of the 20th century.

MR. BEN HAIG BAGDIKIAN, Staff Writer, *Providence Journal* and *Evening Bulletin*, Providence, Rhode Island: Studies in the development of the contemporary American press.

DR. FREDERIK BARRY BANG, Professor of Pathobiology, School of Hygiene and Public Health, Johns Hopkins University: Studies of responses to disease in various marine invertebrates.

DR. HORACE ALBERT BARKER, Professor of Biochemistry, University of California, Berkeley: Studies of the biochemistry of the cobamide coenzymes.

DR. WILLIS R. BARNSTONE, Assistant Professor of Romance Languages, Wesleyan University: A study of the life and works of the Spanish poet, Antonio Machado, 1875-1939.

✓ DR. GEORGE A. BARTHOLOMEW, Professor of Zoology, University of California, Los Angeles: Study of water economy and body temperatures in vertebrates from arid and humid regions of subtropical Australia.

DR. RICHARD J. BEARMAN, Assistant Professor of Chemistry, University of Kansas: Studies in the statistical mechanics of transport processes in mixtures.

DR. JOHN FREDERICK BELL, Medical Director, U. S. Public Health Service, Hamilton, Montana: A comparative study of Eurasian and American tularemia.

DR. HARRY JINDRICH BENDA, Associate Professor of History, Yale University: Studies in the social and political history of Southeast Asia since 1500.

DR. SEYMOUR BENZER, Professor of Biophysics, Purdue University: Genetic and biochemical studies of cellular control mechanisms.

MR. FRANCIS LEWIS BERKELEY, JR., Associate Librarian and Curator of Manuscripts, University of Virginia Library: A study of the newly discovered diary and letter books of Robert Carter of Virginia, 1663-1732.

DR. ERNST BERLINER, Professor of Chemistry, Bryn Mawr College: A study of the relation between reactivity and ring size in cyclic olefins.

MR. WENDELL ERDMAN BERRY, Writer, Turners Station, Kentucky: Creative writing.

DR. ARTHUR BESTOR, Professor of History, University of Illinois: Studies in American constitutional development.

DR. DAVID DUCKWORTH BIEN, Assistant Professor of History, Princeton University: A study of the expulsion of the Jesuits from France during the 1760s.

MR. ALFRED HENRY BLAUSTEIN, Artist, and Art Instructor, Yale University and Pratt Institute, Brooklyn, New York: Creative printmaking.

DR. ERNST BLEULER, Professor of Physics, Purdue University: Studies in the field of high-energy physics.

DR. NICHOLAS CLEAVELAND BODMAN, Head, Department of Far Eastern Languages, Foreign Service Institute, Washington, D. C.: Studies in Tibeto-Burman languages.

DR. WILLIAM CLOUSER BOYD, Professor of Immunochimistry, Boston University School of Medicine: Studies on immunochemical specificity.

MISS KAY BOYLE, Writer and translator, Rowayton, Connecticut: Studies of eminent figures in German history.

DR. OSCAR JOHN LEWIS BRADLEY, Associate Professor of English, Mount Holyoke College: A study of the life and works of Henry Mayhew, 1812-1887.

PROFESSOR BORIS BRESLER, Professor of Civil Engineering, University of California, Berkeley: Study of improved methods of design for control of crack and deformation in concrete structures.

DR. ROBERT KENNETH BRINTON, Associate Professor of Chemistry, University of California, Davis: Studies of the transfer of excitation energy between molecules in solution.

DR. JULES BRODY, Associate Professor of French, Columbia University: A study of Platonism in French classical thought.

DR. DANA CHARLES BROOKS, Instructor in Anatomy, Cornell Medical College: Studies of the basis of electrical activity in the mammalian brain.

DR. ROBERT BROUT, Associate Professor of Physics, Cornell University: Studies of the applications of the techniques of the many body theory to the problem of ferromagnetism.

DR. ROBERT SANFORD BRUSTEIN, Assistant Professor of English Literature, Columbia University: A study of the modern drama from Ibsen to Ionesco.

DR. BERNARD BUDIANSKY, Associate Professor of Structural Mechanics, Harvard University: Studies in the theory of thin shells.

DR. SIDNEY ALEXANDER BURRELL, Associate Professor of History, Barnard College: Study of the historic causes (1603-1637) of the Covenanting Rebellion in Scotland.

DR. EVERETT CARTER, Vice-Chancellor, and Associate Professor of English, University of California, Davis: A study of the idea of progress in American literature.

DR. HERBERT E. CARTER, Professor of Chemistry and Chemical Engineering, University of Illinois: Studies and consultation with European biochemists.

DR. WILLIAM ANDREW CHUPKA, Associate Physicist, Argonne National Laboratory: Studies in mass spectrometry.

DR. ANDREW HILL CLARK, Professor of Geography, University of Wisconsin: Studies in historical geography, particularly of maritime Canada.

DR. ERIC WILLIAM COCHRANE, JR., Assistant Professor of History, University of Chicago: Studies in the history of Florence during the Principate, 1530-1800.

DR. ROBERT HUGH COLE, Professor of Chemistry, Brown University: Study of equilibrium and relaxation theories of dielectrics.

MR. EDWARD COLKER, Artist, New York City: Creative printmaking.

DR. ARTHUR DWIGHT CULLER, Professor of English, Yale University: A study of the poetry of Matthew Arnold.

DR. HERBERT BASHFORD CURRIER, Professor of Botany, University of California, Davis: Studies of the physiology of callose and associated phenomena in plant cells.

DR. ALEXANDER DALLIN, Associate Professor of International Relations, Columbia University: A study of the pattern of relations between Moscow and Communist Parties outside the Soviet Union, 1935-1960.

DR. RALPH THOMAS DANIEL, Associate Professor of Music, Indiana University: A study of the origin and development of the English anthem.

MR. BRUCE LANDON DAVIDSON, Photographer, New York City: A photographic study of youth in America.

MRS. MARGARET GAY DAVIES, Associate Professor of History, Pomona College, Claremont: A study of estate management and income among gentry landholders in Restoration England.

DR. ANGEL DEL RÍO, Professor of Spanish, Columbia University: A study of Jovellanos and the intellectual crisis of Spain in the 18th century.

MR. ARTHUR DESHAIES, Artist, Norton, Massachusetts: Creative printmaking.

MR. JAMES LAFAYETTE DICKEY, III, Writer, Atlanta, Georgia: Creative writing in poetry.

DR. EDWARD ATKINSON DOWEY, JR., Professor of the History of Theology, Princeton Theological Seminary: Studies in the intellectual history of the 16th and 17th centuries, with special reference to Protestant thought.

DR. SIDNEY DAVID DRELL, Professor of Physics, Stanford University: Studies in quantum field theory on the structure and interactions of elementary particles.

DR. CHARLES WILLIAM DUNN, Professor of English, New York University: Studies in the literary history of 12th century Ireland.

DR. FRANCIS DVORNIK, Professor of Byzantine History, Dumbarton Oaks Research Library, Washington, D. C.: Study in the origin of early Christian political philosophy.

DR. MARTIN DYCK, Associate Professor of German, University of Michigan: A study of the writings of the German romanticist, Friedrich von Hardenberg (Novalis).

DR. RICHARD S. ECKAUS, Associate Professor of Economics, Brandeis University: Studies of the economic characteristics of technology, particularly in the metal-working industries.

MR. HAROLD EDELMAN, Architect, and Associate Professor of Architecture, Pratt Institute, Brooklyn, New York: Studies of the elements of visual design and their relation to the principles of composition.

DR. IRVIN EHRENPREIS, Associate Professor of English, Indiana University: A study of the life of Jonathan Swift.

DR. LEON EHRENPREIS, Associate Professor of Mathematics, Yeshiva University, New York City: Study of partial differential equations by generalized Fourier analysis.

MR. HALIM A. EL-DABH, Composer, Cresskill, New Jersey: Musical composition.

MR. GEORGE PAUL ELLIOTT, Writer, and Visiting Lecturer, Writers Workshop, State University of Iowa: Creative writing in fiction.

DR. KENAN TEVFIK ERIM, Assistant Professor of Classics, New York University: Studies of the coins issued by the Sicilian city of Morgantina between the 5th and the 2nd century B.C.

MR. JIMMY ERNST, Painter, and Assistant Professor of Art, Brooklyn College: Creative painting.

DR. FRANCIS COPE EVANS, Professor of Zoology, University of Michigan: Comparative biological studies of American and European community ecology.

DR. GERTRUDE FALK, Assistant Professor of Pharmacology, University of Washington, Seattle: Studies on the coupling between excitation and contraction in muscles.

DR. WEN FONG, Associate Professor of Art and Archaeology, Princeton University: A study of 12th century Chinese paintings of Buddhist saints.

DR. DAVID COVINGTON FOWLER, Associate Professor of English, University of Washington, Seattle: A study of the life and works of John Trevisa, 14th century English scholar and translator.

DR. WALLACE FOWLIE, Member of the Literature Faculty, Bennington College: A study of the work of Marcel Proust.

DR. RENÉE CLAIRE FOX, Assistant Professor of Sociology, Barnard College: Studies of the effect of social, cultural, and historical factors on medical research in Belgium.

MR. GRAY FOY, Artist, New York City: Creative drawing.

MR. ARNOLD FRANCHETTI, Composer, and Associate Professor of Composition and Theory, University of Hartford: Musical composition.

DR. JOSEPH FRANK, Associate Professor of English, University of Rochester: Studies in English poetry from 1642 to 1660.

DR. HANS PIETER ROETERT FREDERIKSE, Physicist, Chief, Solid State Physics Section, National Bureau of Standards: Studies of the physical properties of oxide semi-conductors.

DR. JULIUS H. FREITAG, Professor of Entomology, University of California, Berkeley: A comparative study of certain vectors of plant viruses and their effect on the host.

DR. FERDINAND FREUDENSTEIN, Professor of Mechanical Engineering, Columbia University: Studies in the kinematics of mechanisms.

DR. JAMES JOHN FRITZ, Associate Professor of Chemistry, Pennsylvania State University: Studies of the properties of materials at extremely low temperatures.

DR. DONALD CLIFFORD GALLUP, Assistant Professor of Bibliography, Yale University: Bibliographical studies of the works of Ezra Pound.

DR. RAYMOND DORNER GIRAUD, Associate Professor of French, Stanford University: A study of the origins and development of the concept of art for art's sake in 19th century French literature.

DR. PAUL WILBUR GLAD, Associate Professor of History, Coe College: A historical study of the United States from World War I to the Great Depression.

DR. DONALD ARTHUR GLASER, Professor of Physics, Lawrence Radiation Laboratory, University of California, Berkeley: Studies in biophysics.

DR. EDWARD GLASER, Associate Professor of Spanish and Portuguese, University of Michigan: Studies in Portuguese literature of the 17th century.

DR. CLARENCE LOUIS FRANK GOHDES, Professor of American Literature, Duke University: Bibliographical studies of regional literature and drama in the United States.

DR. SIDNEY GOLDSTEIN, Professor of Sociology, Brown University: Comparative studies of Danish and American population mobility.

DR. ALFRED M. GOLLIN, Research Associate in History, University of California, Los Angeles: A study of Lord Milner's later career, 1905-1925.

DR. MALCOLM STEPHEN GORDON, Assistant Professor of Biology, University of California, Los Angeles: A study of physiological mechanisms for salinity adaptation in euryhaline fishes.

DR. ROBERT JAMES GORLIN, Professor of Oral Pathology, University of Minnesota: Studies of certain oral and related diseases.

DR. CHARLES DANNE GRAHAM, JR., Research Metallurgist, General Electric Research Laboratory, Schenectady, New York: Studies of the physics of magnetism.

DR. JESSE GLENN GRAY, Professor of Philosophy, Colorado College: Studies in the philosophy of education.

DR. ERWIN L. HAHN, Associate Professor of Physics, University of California, Berkeley: Studies of nuclear magnetism in normal and super-conducting metals at very low temperatures.

DR. BENJAMIN DOWNS HALL, Assistant Professor of Chemistry, University of Illinois: A study of the molecular structure and biological specificity of ribonucleic acid synthesized in virus-infected bacteria.

DR. BEN HALPERN, Research Associate, Center for Middle Eastern Studies, Harvard University: Studies of contemporary Israel.

DR. EDWARD BILLINGS HAM, Professor of French, University of Michigan: A study of the French medieval romance *Flamenca*.

MR. ROBERT WILLIAM HANSEN, Painter, and Associate Professor of Art, Occidental College, Los Angeles: Creative painting.

MR. CURTIS ARTHUR HARNACK, Writer, and Member of the Literature Faculty, Sarah Lawrence College: Creative writing in fiction.

DR. BERNARD GEORGE HARVEY, Research Associate in Nuclear Physics, Lawrence Radiation Laboratory, University of California, Berkeley: Study of nuclear stripping and pick-up reactions.

DR. LAWRENCE ELLIOT HARVEY, Associate Professor of French, Dartmouth College: Study of the writings of Samuel Beckett.

DR. HUGH DODGE HAWKINS, Assistant Professor of American Studies, Amherst College: A study of American university presidents in the period 1865-1915.

MR. DAVID VINCENT HAYES, Sculptor, Coventry, Connecticut: Creative sculpture.

DR. EVANS VAUGHAN HAYWARD, Physicist, National Bureau of Standards: Studies in the field of photonuclear reactions.

DR. ERIC GUSTAV HEINEMANN, Associate Professor of Psychology, Vassar College: Studies on the theory of visual perception.

DR. LEON ALBERT HENKIN, Professor of Mathematics, University of California, Berkeley: Studies of models of the simple theory of types.

MRS. HELEN PALMER HENLEY, Farm Editor, *The Christian Science Monitor*: A study of the family farm in the contemporary United States.

DR. DAVID HERLIHY, Assistant Professor of History, Bryn Mawr College: Studies of the agrarian history of Tuscany in relation to the economic crisis of the 14th century.

DR. WILLIAM BEST HESSELTINE, Professor of History, University of Wisconsin: Studies in the manuscript journals of Hekekyan Bey, 1803-1874, an Armenian in the Egyptian Service.

DR. ROBERT MAURICE HEXTER, Senior Fellow, Mellon Institute, Pittsburgh: A study of the problem of predicting the electronic and vibrational spectra of molecular crystals.

DR. WALTER JOHN HIPPLE, JR., Associate Professor of English and Philosophy, Cornell College: A study of British aesthetic theory from Dugald Stewart to Samuel Alexander, 1810-1920.

DR. JACK HIRSHLEIFER, Associate Professor of Economics, University of California, Los Angeles: Studies of the economic theory of investment decision.

DR. HERBERT HOFFMANN, Curator of Ancient Art, Museum für Kunst und Gewerbe, Hamburg, Germany: Studies in archaic and early classical Greek bronze sculpture.

DR. ROBERT GOODE HOGAN, Assistant Professor of English, Purdue University: Creative writing in drama.

DR. WILLIAM RANSOM HOGAN, Professor of History, Tulane University: Studies in the history of American leisure-time activities.

DR. HAJO HOLBORN, Sterling Professor of History, Yale University: A study of the philosophical foundations of historical knowledge.

DR. LOUIS NORBERG HOWARD, Associate Professor of Mathematics, Massachusetts Institute of Technology: Studies in geophysical fluid dynamics.

DR. BENJAMIN HUNNINGHER, Queen Wilhelmina Professor of the History, Language and Literature of the Netherlands, Columbia University: A study of ideas and purposes in American drama since 1920.

DR. NICOLAE ILIESCU, Assistant Professor of Italian, Harvard University: A study of Petrarch's *Canzoniere* in the perspective of the writings of Saint Augustine.

DR. DOUGLAS LAMAR INMAN, Associate Professor of Marine Geology, University of California, La Jolla: Studies of the problems of beach erosion.

DR. KENNETH KEITH INNES, Associate Professor of Chemistry, Vanderbilt University: Studies of organic molecular structure.

PROFESSOR CHARLES ISSAWI, Associate Professor of Near and Middle East Economics, Columbia University: A study of the economic development of the Arab countries since 1800.

DR. HARRY V. JAFFA, Professor of Political Science, Ohio State University: Studies of the political philosophy of Abraham Lincoln.

MRS. DOROTHY JEAKINS, Costume Designer, Los Angeles, California: A study of theatrical dress in the traditional drama of Japan.

DR. SHELDON JUDSON, JR., Associate Professor of Geology, Princeton University: A study of the interrelation of human occupancy and physical environment in Etruria.

DR. WALTER BARCLAY KAMB, Associate Professor of Geology, California Institute of Technology, Pasadena: A study of the relation between state of stress and preferred orientation of ice crystals in selected glaciers of the Alps.

PROFESSOR JEROME EUGENE KAPLAN, Artist, and Associate Professor of Graphic Arts, Philadelphia Museum College of Art: Creative printmaking.

DR. ROBERT MANOAH KARK, Professor of Medicine, University of Illinois: Studies of the nephrotic syndrome in rats.

DR. ROBERT E. KASKE, Associate Professor of English, University of North Carolina: A study of heroism and the hero in Old English Poetry.

MR. JOHN CRESSWELL KEATS, Writer, Philadelphia: Creative writing.

DR. CHARLES DAVID KEELING, Associate Research Geochemist, Scripps Institution of Oceanography, University of California, La Jolla: A study of the distribution of carbon dioxide in the atmosphere.

DR. DONALD LAWRENCE KEENE, Professor of Japanese, Columbia University: A study of the relation of the theatre to Japanese life during the past 250 years.

DR. PAUL MURRAY KENDALL, Professor of English, Ohio University: A study of the life of Louis XI of France.

DR. ARTHUR KENT KERMAN, Associate Professor of Physics, Massachusetts Institute of Technology: Studies in the theory of nuclear structure.

DR. ANNE DRAFFKORN KILMER, Research Assistant, Assyrian Dictionary Staff, Oriental Institute, University of Chicago: Studies of the lexical texts of ancient Mesopotamia.

DR. JERE CLEMENS KING, Professor of History, University of California, Los Angeles: A study of the political career of Pierre Laval.

DR. ARTHUR LOUIS KOCH, Associate Professor of Biochemistry and Microbiology, University of Florida: Studies of adaptive enzyme forming systems in micro-organisms.

MR. JAY KENNETH KOCH, Writer, and Instructor in English, Columbia University: Creative writing in poetry.

PROFESSOR KARL GEORGE KOHN, Composer, and Associate Professor of Music, Pomona College, Claremont: Musical composition.

DR. ELLIS ROBERT KOLCHIN, Professor of Mathematics, Columbia University: Studies in the theory of algebraic differential equations.

DR. THOR KOMMEDAHL, Associate Professor of Plant Pathology and Botany, University of Minnesota: Studies of root-rotting organisms.

DR. SAMUEL NOAH KRAMER, Clark Research Professor of Assyriology, University of Pennsylvania: Studies of Sumerian literary texts.

DR. MURRAY KRIEGER, Professor of English, University of Illinois: Studies of the Classic vision in post-Renaissance literature.

DR. WLADYSLAW W. KULSKI, Professor of Political Science, Syracuse University: A study of the concept of national interest in contemporary France.

DR. STEPHEN GUILD KURTZ, Associate Professor of History, Wabash College: Studies in the political philosophy and statecraft of John Adams.

DR. HERBERT AUGUST LAITINEN, Professor of Analytical Chemistry, University of Illinois: Studies in the field of high temperature electrochemistry.

MR. DAN H. LAURENCE, Bibliographer, New York City: Bibliographical studies of the works of George Bernard Shaw.

MR. DAVID SIEVERT LAVENDER, Head, English Department, Thacher School, Ojai, California: A study of the American Fur Company.

MISS MARY LAVIN, Writer, Bective, County Meath, Ireland: Creative writing in fiction.

DR. HUI-LIN LI, Associate Professor of Botany, University of Pennsylvania: Taxonomic studies of the woody flora of Formosa.

DR. ROBERT BERNER LOFTFIELD, Assistant Professor of Organic Chemistry, Harvard Medical School: Study of the amino acid sequence of proteins.

DR. ANDREW LOSSKY, Associate Professor of History, University of California, Los Angeles: A study of the political beliefs of Louis XIV of France.

DR. FRANCIS EUGENE LOW, Professor of Physics, Massachusetts Institute of Technology: Study of the interactions of elementary particles by application of quantum field theory.

DR. GEORGE WHITELAW MACKEY, Professor of Mathematics, Harvard University: Theoretical studies of topological groups.

DR. THOMAS HENRY DONALD MAHONEY, Associate Professor of History, Massachusetts Institute of Technology: Studies of Edmund Burke and the American Revolution.

DR. HANS ALBERT MAIER, Professor of Foreign Languages, University of Connecticut: Studies of Goethe's *West-östlicher Divan*.

DR. MARTIN EDWARD MALIA, Associate Professor of History, University of California, Berkeley: A study of the Russian radical intelligentsia, 1825 to 1917.

DR. GEORGE MARKOW-TOTEVY, Assistant Professor of French, Princeton University: A study of Gide's criticism of English authors.

MRS. PAULE BURKE MARSHALL, Writer, New York City: Creative writing in fiction.

DR. NORMAN F. MARTIN, S.J., Assistant Professor of History, University of Santa Clara, Santa Clara: A study of the problem of the unemployed in New Spain during the 17th and 18th centuries.

DR. LEO MARX, Professor of English and American Studies, Amherst College: A study of the pastoral impulse in American literature and thought.

DR. RUFUS WELLINGTON MATHEWSON, JR., Associate Professor of Russian Literature, Columbia University: A critical study of Anton Chekhov's short stories.

DR. WALLACE IRVING MATSON, Associate Professor of Philosophy, University of California, Berkeley: Study of explanatory concepts.

DR. JOHN SENECA MCGEE, Associate Professor of Government and Business, University of Chicago: Studies of government regulation in Spanish industry.

DR. ABRAHAM IRVING MELDEN, Professor of Philosophy, University of Washington, Seattle: Studies of moral reasoning.

DR. JOHN MICHAEL MONTIAS, Assistant Professor of Economics, Yale University: Studies of present-day economic organization in Eastern Europe.

MR. RELMAN GEORGE MORIN, Special Correspondent, Associated Press: A study of the origins of colonialism in the Far East.

DR. RICHARD BRANDON MORRIS, Gouverneur Morris Professor of History, Columbia University: A study of the peace negotiations of 1781-82 terminating the American Revolution.

DR. STEVEN ALEXANDER MOSZKOWSKI, Associate Professor of Physics, University of California, Los Angeles: Studies on the interrelations between various nuclear models.

DR. WILLIAM WILSON MULLINS, Associate Professor of Metallurgy, Carnegie Institute of Technology: Studies of theoretical problems relating to shapes and rates of changes of surfaces under various environmental conditions.

DR. WALTER FRIEDRICH NAUMANN, Associate Professor of German, Ohio State University: A study of the forms of German lyric poetry.

DR. LOWRY NELSON, JR., Associate Professor of English, University of California, Los Angeles: Studies in Italian narrative fiction from Boccaccio to the present.

MR. DANIEL UHRY NEWMAN, Artist, New City, New York: Creative painting.

MR. THEODORE S. NEWMAN, Composer, Tulsa, Oklahoma: Musical composition.

DR. ALBERT NIJENHUIS, Associate Professor of Mathematics, University of Washington, Seattle: Studies in differential geometry, in particular of complex manifolds.

DR. FELIX JOHANNES OINAS, Assistant Professor of Slavic Languages and Literatures, Indiana University: Studies in the relationship of Russian and Balto-Finnic folklore and linguistics.

DR. DAVID OKRENT, Senior Physicist, and Head, Fast Reactor Physics and Safety Section, Argonne National Laboratory: Studies in the physics of the behavior of materials at high temperatures.

DR. DAVID LOCKWOOD OLMSTED, Associate Professor of Anthropology, University of California, Davis: Studies in comparative American Indian linguistics.

DR. ROBERT EUGENE OLSON, Professor of Biochemistry and Nutrition, University of Pittsburgh: Studies of the mechanism of control of certain aspects of cell metabolism in heart muscle.

DR. ROBERT ORNSTEIN, Assistant Professor of English, University of Illinois: A study of Shakespeare's history plays in relation to Elizabethan historical and political thought.

DR. HARRY OSTER, Assistant Professor of English, Louisiana State University: A study of Negro folk music in Louisiana.

DR. NEAL OXENHANDLER, Associate Professor of French, University of California, Los Angeles: A study of the aesthetic basis of the poetry of Max Jacob, 1876-1944.

DR. SERGIO PACIFICI, Assistant Professor of Italian, Yale University: A study of the modern Italian novel.

MRS. GRACE PALEY, Writer, New York City: Creative writing in fiction.

DR. NORMAN DUNBAR PALMER, Professor of Political Science, University of Pennsylvania: Studies of India and Pakistan in world affairs, with special reference to foreign policies of the United States.

DR. WILLIAM EUGENE PARHAM, Professor of Organic Chemistry, University of Minnesota: Consultation and experimentation with organic chemists.

DR. WILLIAM HARWOOD PEDEN, Professor of English, University of Missouri: A study of the American short story from 1940 to 1960.

DR. FRANKLIN JOHNSON PEGUES, Associate Professor of History, Ohio State University: A study of medieval English law reports.

DR. HAROLD BRENNER PEPINSKY, Professor of Psychology, Ohio State University: A study of the problem of productivity in organizations.

DR. DAVID DODD PERKINS, Associate Professor of English, Harvard University: A study of the life and poetry of William Wordsworth.

MR. BURRILL PHILLIPS, Composer, and Professor of Music, University of Illinois: Musical composition.

DR. WILLIAM R. POLK, Assistant Professor of Near Eastern Languages and Literature, Harvard University: Studies of the relations of the United States and the Arab world.

DR. PAUL EDWIN POTTER, Associate Geologist, Illinois Geological Survey: Studies of primary directional properties in sedimentary rocks.

DR. JOHN MICHAEL PRAUSNITZ, Associate Professor of Chemical Engineering, University of California, Berkeley: Studies in the field of thermodynamics of solutions.

DR. SESTO PRETE, Associate Professor of Paleography and Philology, Fordham University: A study of Latin manuscripts in the Barberini Collection of the Vatican Library.

DR. BENTON SEYMOUR RABINOVITCH, Professor of Chemistry, University of Washington, Seattle: Studies on molecules in non-equilibrium systems at high levels of vibrational excitation.

DR. ISAAC RABINOWITZ, Professor of Biblical and Hebrew Studies, Cornell University: Studies toward an annotated translation of "The Book of Honeycomb's Flow" of Judah Messer Leon.

DR. ROY RADNER, Associate Professor of Economics and Statistics, University of California, Berkeley: Mathematical studies of problems of organization.

DR. JOHN HENRY RALEIGH, Professor of English, University of California, Berkeley: A study of English fiction from Dickens to Joyce.

DR. CHARLES NORWOOD REILLEY, Associate Professor of Chemistry, University of North Carolina: Studies of metal chelate relations.

MR. JOHN W. RHODEN, Sculptor, Brooklyn, New York: Creative sculpture.

PROFESSOR GEORGE WARREN RICKEY, Sculptor, and Professor of Fine Arts, Newcomb College, Tulane University: Studies of the physics of motion as applied to creative sculpture.

DR. ROBERT D. RICHTMYER, Professor of Applied Mathematics, New York University: Studies of mathematical methods for computations in fluid dynamics.

DR. MICHAEL RIFFATERRE, Associate Professor of French, Columbia University: Studies on Victor Hugo's poetic style in the *Légende des Siècles*.

DR. KENNETH LLOYD RINEHART, JR., Assistant Professor of Organic Chemistry, University of Illinois: A study of the application of physical and chemical methods to problems of organic structure determination.

DR. RONALD SAMUEL RIVLIN, Professor of Applied Mathematics, Brown University: Studies on finite elasticity theory and general theories in continuum mechanics.

DR. FRANK SHERWOOD ROWLAND, Associate Professor of Chemistry, University of Kansas: Study of the chemical effects of nuclear transformations.

DR. ZEVI W. SALSBURG, Associate Professor of Chemistry, Rice University: Study of the thermodynamic theory of reactive shock waves and detonations.

MR. STANLEY SALZMAN, Architect, and Associate Professor of Architecture, Pratt Institute, Brooklyn, New York: Studies of the elements of visual design and their relation to the principles of composition.

DR. JIM ALVIN SANDERS, Professor of Old Testament Interpretation, Colgate Rochester Divinity School: Studies in the Dead Sea Scrolls.

DR. LAWRENCE ENNIS SAVAGE, Resident in Surgery, School of Medicine, University of Washington, Seattle: Studies in gastric physiology.

DR. DAVID S. SAXON, Professor of Physics, University of California, Los Angeles: Study of the optical model of the nucleus.

DR. HANS JUERGEN EDUARD SCHMITT, Assistant Professor of Physics, Harvard University: Studies on the scattering of electromagnetic waves from acoustic disturbances.

DR. IRA OSCAR SCOTT, JR., Associate Professor of Finance, Columbia University: A study of western European central bank and treasury techniques.

MR. PAUL BELLVILLE TAYLOR, Choreographer and dancer, New York City: Choreography.

DR. JACOBUS TEN BROEK, Professor of Speech, University of California, Berkeley: Studies in the evolution of ideas of United States citizenship.

DR. WILLIAM TYRRELL THOMSON, Professor of Engineering, University of California, Los Angeles: Studies of random vibration phenomena.

DR. CHARLES WYVIL TODD, Chemist, E. I. duPont de Nemours and Company, Wilmington, Delaware: Studies in the fields of immunology and protein synthesis.

DR. ROBERT ULLMAN, Associate Professor of Chemistry, Polytechnic Institute of Brooklyn: Studies of scattering of X-rays and light, particularly in the low angle range.

DR. JAROSLAV VANEK, Assistant Professor of Economics, Harvard University: Study of Yugoslavia as a decentralized socialist economy.

DR. PANAYIOTIS J. VATIKIOTIS, Associate Professor of Government, Indiana University: Studies of the development of Egypt from 1800 to the present.

DR. FRANK WHITTEMORE WADSWORTH, Associate Professor of English, University of California, Los Angeles: A study of the revivals of Elizabethan plays in 19th century United States and England.

DR. ERIK WAHLGREN, Professor of Scandinavian Languages, University of California, Los Angeles: Studies of medieval relations between Scandinavian Greenland and the American mainland.

DR. LEWIS GLEN WEATHERS, Assistant Plant Pathologist, University of California, Riverside: Studies of unrelated citrus viruses in mixtures causing multiple infections of citrus plants.

DR. MYRON WEINER, Assistant Professor of Political Science, University of Chicago: A study of the development of the Congress Party since Indian independence.

DR. LIONEL EDWARD WEISS, Associate Professor of Geology, University of California, Berkeley: Study of geometrical and symmetrical properties of rocks deformed by flow in the solid state.

DR. CHARLES ALLEN WEST, Assistant Professor of Chemistry, University of California, Los Angeles: Studies of the enzymatic mechanisms and intermediates involved in the biosynthesis of the gibberellins.

DR. HENRY ORSON WHEELER, Assistant Professor of Medicine, Columbia University College of Physicians and Surgeons: A study of reabsorptive mechanisms in the gallbladder.

DR. CEDRIC HUBBELL WHITMAN, Professor of Greek and Latin, Harvard University: A study of Aristophanes as a comic poet.

DR. KENNETH BERLE WIBERG, Professor of Chemistry, University of Washington, Seattle: Studies in the field of organic oxidation reactions.

DR. BENJAMIN WIDOM, Associate Professor of Chemistry, Cornell University: Study of long-range correlations in fluids.

DR. HEROLD JACOB WIENS, Associate Professor of Geography, Yale University: A study of the historical and regional geography of Sinkiang.

DR. HARRIS WARD WILSON, Professor of English, University of Illinois: A study of H. G. Wells and the Fabian society.

DR. ROBERT RATHBUN WILSON, Professor of Physics, Cornell University: Studies of the proton as revealed by high-energy electrons.

DR. HOWARD ELLIOTT WINN, Associate Professor of Zoology, University of Maryland: Comparative studies of sound production, as means of communication, in certain fish species.

DR. ARTHUR YVOR WINTERS, Professor of English, Stanford University: Studies on aspects of the short poem in English.

DR. CARL LESLIE WITHNER, Associate Professor of Biology, Brooklyn College: Studies of the evolution and speciation of orchids in the genus *Cattleya*.

DR. RUDOLF JACOB WITTKOWER, Professor of Art History and Archaeology, Columbia University: A study of Neo-Palladian architecture in England.

MR. EDWIN WOLFE II, Librarian, Library Company of Philadelphia: A study of Benjamin Franklin's personal library.

DR. ANDREW WRIGHT, Associate Professor of English, Ohio State University: A study of the novels of Henry Fielding.

DR. HARRY CURTIS YOUNG, JR., Professor of Plant Pathology, Oklahoma State University: Studies of genetic behavior in certain rust fungi.

COMMITTEE OF SELECTION

The Committee of Selection consisted of Dr. Louis Booker Wright, *Chairman*, Dr. George W. Corner, Dr. Henri M. Peyre, Dr. Carl O. Sauer, and Dr. Edwin Bidwell Wilson. The advisory committee for applications from artists consisted of Mr. Oronzio Maldarelli, Mr. Arthur Osver, Mr. Franklin Watkins and Mr. Carl Zigrosser.

New York City
May 4, 1961

HENRY ALLEN MOE,
President

Handwritten: Heywood Hanson

JOHN SIMON GUGGENHEIM
MEMORIAL FELLOWS • 1962

DR. WILLIAM YEWDALE ADAMS, Archaeologist, Tulsa, Oklahoma: A study of daily life in a Nubian village in the Sudan in the region to be flooded by the Aswan High Dam.

MR. RICHARD SANDERS ALLEN, Writer, Round Lake, New York: Historical and engineering studies of the covered bridges of the American south and midwest.

DR. ERNEST AMBLER, Chief, Cryogenic Physics Section, U. S. National Bureau of Standards: A study of the co-operative properties of spin systems at low temperatures.

DR. DANIEL I. ARNON, Professor of Cell Physiology, University of California, Berkeley: Studies of the energy conversion process in photosynthesis.

DR. CLARENCE WILLET ASLING, Professor of Anatomy, University of California, Berkeley: A study of endocrine regulation of differential growth and maturation of the skull.

DR. KARL THOMAS AUST, Research Metallurgist, General Electric Research Laboratory, Schenectady: Studies of the role of dislocation structures in the origin and growth of recrystallized grains in high-purity metals.

DR. DOMINGO M. AVIADO, Associate Professor of Pharmacology, University of Pennsylvania: A study of the action of certain drugs on the pulmonary circulation.

DR. FORD LEWIS BATTLES, Schaff Professor of Church History, Hartford Seminary Foundation: A study of the ecumenical foundations of the church in the Reformation.

DR. HENRY ERNEST BAUMGARTEN, Professor of Chemistry, University of Nebraska: Theoretical and experimental studies of organic molecular structure.

DR. JEROME BEATY, Associate Professor of English, Emory University: A critical and historical study of the writing of George Eliot's novels.

DR. SAM M. BEISER, Associate Professor of Microbiology, Columbia University: Studies of the production of antibodies *in vitro* in frog tissue culture.

MR. ROBERT BENDINER, Writer, Huntington, New York: A study of the workings of American government, with particular emphasis on the relationship between citizen and government.

DR. ROBERT DEMO BENT, Assistant Professor of Physics, Indiana University: Studies of short nuclear lifetimes by the Doppler shift attenuation method.

DR. ANDREW JOHN BERGER, Associate Professor of Anatomy, University of Michigan: Studies of the avian muscular system.

DR. KNIGHT BIGGERSTAFF, Professor of Chinese History, Cornell University: Historical studies of China during the 19th and 20th centuries.

DR. HERBERT BLAU, Professor of English, San Francisco State College: A study of the theatre in relation to contemporary cultural history.

DR. HAROLD BLOOM, Assistant Professor of English, Yale University: A study of romanticism in modern English and American poetry.

DR. SOL RUBIN BODNER, Associate Professor of Engineering, Brown University: Studies of the dynamic behavior of solid materials having time dependent properties.

DR. EDGAR JOHN BOELL, Ross G. Harrison Professor of Experimental Zoology, Yale University: Studies of the growth and differentiation of embryonic tissues.

DR. CARL WILLIAM BOOTHROYD, Professor of Plant Pathology, Cornell University: Studies of the pathogens of maize in Mexico and Central America.

DR. ROBERT BRANNER, Associate Professor of Art History and Archaeology, Columbia University: A study of 13th century Gothic architecture in northern France.

DR. DAVID BRAYBROOKE, Assistant Professor of Philosophy, Yale University: A study of information and choice in democratic political systems.

DR. CARL BRIDENBAUGH, Margaret Byrne Professor of American History, University of California, Berkeley: Historical studies of the American people in the colonial period.

DR. SHELDON BROWN, Associate Professor of Physics, Fresno State College: A study of the gyromagnetic ratios of ferromagnetic elements and alloys.

DR. FRANK H. BROWNELL, III, Professor of Mathematics, University of Washington, Seattle: Studies toward a mathematical formulation of quantum radiation theory.

DR. JOHN BURTON, Artist, Santa Barbara, California: Artistic creation in glass.

DR. EUGENIO CALABI, Professor of Mathematics, University of Minnesota: Studies on homological methods in differential geometry.

PROFESSOR UGO CAMERINI, Associate Professor of Physics, University of Wisconsin: Studies of the decay modes of neutral k-mesons.

DR. RICHARD HUNTLEY CAPPS, Assistant Professor of Physics, Northwestern University: Studies of the strong interactions of strange elementary particles, by means of the application of dispersion relations.

MR. DONALD SELWYN CARNE-ROSS, Instructor in Romance Languages, University of Texas: A critical study of Ariosto's *Orlando Furioso*.

MR. GERARD ERNEST CASPARY, Instructor in History, Smith College: A study of the influence of ideas stemming from Roman and Canon Law on the constitutional position of the king in 14th century England.

DR. CHEN KANG CHAI, Staff Scientist, Roscoe B. Jackson Memorial Laboratory, Bar Harbor, Maine: Studies of the inheritance of biological traits in the population of Taiwan, including the aboriginal tribes.

DR. ANDREW F. CHARWAT, Professor of Engineering, University of California, Los Angeles: A study of the initial region of flow immediately downstream of an ideally sharp leading edge of a flat plate in compressible flow.

DR. RICHARD V. CHASE, JR., Professor of English, Columbia University: Historical studies of modern American literature.

DR. ROBERT LEE CHASSON, Professor of Physics, University of Nebraska: Studies of the structure of the interplanetary and interstellar magnetic fields.

DR. GEORGE WHIPPLE CLARK, Associate Professor of Physics, Massachusetts Institute of Technology: Studies of the properties of primary cosmic gamma rays, and of neutrons associated with solar disturbances.

DR. WALDO E COHN, Biochemist, Oak Ridge National Laboratory: Studies in the field of nucleic acid biochemistry.

DR. NICHOLAS E. COLLIAS, Associate Professor of Zoology, University of California, Los Angeles: Studies of the origin and effects of domestication of the Red Jungle Fowl.

PROFESSOR GEORGE R. COLLINS, Professor of Art History and Archaeology, Columbia University: A study of ideas influencing the development of the city, 1880-1920.

MR. EVAN SHELBY CONNELL, JR., Novelist, San Francisco, California: Creative writing in fiction.

DR. JOSEPH HURD CONNELL, Associate Professor of Zoology, University of California, Santa Barbara: A study of species diversity in certain tropical and temperate communities of plants and animals.

DR. WILLIAM STEWART CORNYN, Professor of Slavic and Burmese Languages and Literatures, Yale University: Studies of the grammar of the Burmese language.

DR. CHARLES DUBOIS CORYELL, Professor of Chemistry, Massachusetts Institute of Technology: Studies in the field of nuclear energetics.

DR. HARMON CRAIG, Associate Professor of Geochemistry, University of California, La Jolla: A study of isotopic and chemical relationships in water, steam and gases in the volcanic areas of Italy.

DR. ROBERT PAYSON CREED, Associate Professor of English, Brown University: A study of the traditional style of the Old English poem *Beowulf*.

MRS. LOIS CRISLER, Writer, Lake George, Colorado: Studies of the wilderness behavior of certain North American mammals.

DR. JAMES O. CROSBY, Associate Professor of Spanish, University of Illinois: Studies of the *Política de Dios* of Francisco de Quevedo, 17th century Spanish satirist.

DR. WILLIAM RYAN DAWSON, Professor of Zoology, University of Michigan: Studies of adaptations for heat resistance in reptiles of the Australian deserts.

DR. FRANK W. DICKSON, Associate Professor of Geology and Geochemistry, University of California, Riverside: Studies of the origin of the alkalic igneous rocks in the region of Oslo, Norway.

DR. TOM FAW DRIVER, Associate Professor of Drama, Union Theological Seminary: Studies in the theory of imagination.

MR. JOHN CHARLES EATON, Composer, East Stroudsburg, Pennsylvania: Musical composition.

DR. MURRAY JACOB EDELMAN, Professor of Political Science, University of Illinois: A study of the symbolic meanings of political acts and political institutions.

DR. FRANK NORMAN EDMONDS, JR., Associate Professor of Astronomy, University of Texas: A study of stellar atmospheres and analysis of spectral lines.

DR. STEFÁN EINARSSON, Professor of Scandinavian Philology, Johns Hopkins University: Studies of primitivism and Christian influence in Old Icelandic literature.

DR. ROBERT C. ELLIOTT, Professor of English, Ohio State University: A study of modern anti-utopian literature.

DR. GERALD ESTRIN, Professor of Engineering, University of California, Los Angeles: Studies of the effectiveness of automatic structure change in computer complexes.

DR. GORDON FELDMAN, Associate Professor of Physics, Johns Hopkins University: A study of the strong interactions of elementary particles, by means of the application of dispersion relations and invariance under groups of transformations.

DR. STEPHEN ALEXANDER FISCHER-GALATI, Associate Professor of History, Wayne State University: A study of the Balkan revolutionary tradition.

DR. EDWIN A. FLEISHMAN, Associate Professor of Industrial Administration and Psychology, Yale University: Psychological studies of human abilities.

DR. THOMAS ROBERT FORD, Professor of Sociology, University of Kentucky: A study of the conditions and processes of social and economic change in Latin America.

DR. WALTER FREIBERGER, Associate Professor of Applied Mathematics, Brown University: Studies in the application of statistical methods in the geophysical sciences.

MR. LEE NORMAN FRIEDLANDER, Photographer, New City, New York: Photographic studies of the changing American scene.

DR. MICHAEL WULF FRIEDLANDER, Associate Professor of Physics, Washington University, St. Louis: A study of the characteristics of cosmic radiation.

DR. KURT OTTO FRIEDRICHS, Professor of Mathematics, New York University: Studies on asymptotic phenomena and other problems in mathematical physics.

DR. WILLIAM SEFTON FYFE, Associate Professor of Geology, University of California, Berkeley: Studies of advances in chemical thermodynamics and related sciences as they apply to geophysical research.

DR. DAVID GALE, Professor of Mathematics, Brown University: Studies in the mathematical theory of economic models with special emphasis on the dynamics of economic growth.

DR. JAMES LOUIS GIDDINGS, Professor of Anthropology, Brown University: Studies of the origin and continuity of human cultures in the Bering Strait region.

MR. RICHARD FRANKO GOLDMAN, Conductor, The Goldman Band, New York City: A critical study of the nature and function of music in the middle of the 20th century.

DR. BERNARD GOODMAN, Associate Professor of Physics, University of Missouri: A study of the Mössbauer effect, X-ray and related radiation phenomena.

DR. ELLIOT R. GOODMAN, Associate Professor of Political Science, Brown University: A study of methods for improving decision-making processes in the Atlantic Community.

DR. EDMUND IRWIN GORDON, Fellow of the American Schools of Oriental Research at Harvard University: Studies in the history of the Ancient Middle East, based on cuneiform tablets excavated at El-Amarna, Egypt.

DR. JOHN STEPHENS GRAY, Professor of Physiology, Northwestern University Medical School: Studies in respiratory physiology.

DR. RICHARD HAMILTON GREEN, Associate Professor of English, Johns Hopkins University: A study of the development of poetic theory in the work of the 14th century Italian humanists.

MR. MARTIN GREENBERG, Free lance editor and writer, New York City: A study of the works of Franz Kafka, as examples of the portrayal of psychological reality.

PROFESSOR GERALD GUNTHER, Professor of Law, Stanford University: A study of the United States Supreme Court during the period 1815-1835.

DR. EVERETT EINAR HAGEN, Professor of Economics, Massachusetts Institute of Technology: Studies of the relationship of religious ethic to social change.

DR. GEORGE HALEY, Assistant Professor of Spanish, University of Chicago: A study of Spanish poetry of the 16th and 17th centuries.

DR. ISAAC HALPERN, Professor of Physics, University of Washington, Seattle: Studies of nuclear reactions.

DR. JOHN ERNEST MOFFATT HANCOCK, Professor of Law, Stanford University: A study of certain problems of conflict of laws, with special reference to formal rules of law and the policy factors influencing judicial decision.

DR. PHILLIP HARTH, Associate Professor of English, Northwestern University: A study of the religious and philosophical background of the poems of John Dryden.

DR. IHAB HABIB HASSAN, Professor of English, Wesleyan University: A study of the irrational strain in western literature, from the late Romantic period to the present.

DR. WILLIAM ZEV HASSID, Professor of Biochemistry, University of California, Berkeley: A study of the role of nucleoside diphosphate sugar in carbohydrate metabolism of plants.

MR. JOHN C. B. HAWKES, JR., Novelist, and Assistant Professor of English, Brown University: Creative writing in fiction.

DR. HARRISON MOSHER HAYFORD, Associate Professor of English, Northwestern University: An interpretive study of the works of Herman Melville.

DR. LAWRENCE JOSEPH HEIDT, Associate Professor of Physical Chemistry, Massachusetts Institute of Technology: A study of charge and energy transfer processes related to solar energy conversion.

DR. AUGUST CARL HELMHOLZ, Professor of Physics, University of California, Berkeley: Studies in the field of high energy nuclear physics, in particular on the pion-nucleon interaction.

DR. SIMEON KAHN HENINGER, JR., Associate Professor of English, Duke University: A study of Pythagorean thought in the Renaissance.

DR. GEORGE PAUL HESS, Associate Professor of Biochemistry, Cornell University: Studies of conformational changes accompanying enzyme catalyzed reactions.

DR. CALVIN JOHN HEUSSER, Research Associate, American Geographical Society of New York: Studies of the late Pleistocene phytogeography, climate and chronology of southern Chile.

DR. BARNARD HEWITT, Professor of Speech and Theatre, University of Illinois: A study of Stephen Price, early American theatre manager, 1783-1840.

DR. PHILIP GRAHAM HILL, Assistant Professor of Mechanical Engineering, Massachusetts Institute of Technology: Studies of non-equilibrium effects during rapid expansion of gases.

DR. JOSEPH HIRSH, Associate Professor of Medicine, Albert Einstein College of Medicine, New York City: Studies of suicide in the Japanese armed forces and home guard during World War II in relation to the civilian suicide rate in Japan.

DR. HERBERT I. HOCHBERG, Associate Professor of Philosophy, Indiana University: Studies on the writings of G. E. Moore, English philosopher.

DR. JAMES HOLDERBAUM, Associate Professor of Art, Smith College: A study of Italian painting and sculpture of the 16th century.

DR. WILLIAM WOLFGANG HOLDHEIM, Associate Professor of European Languages and Literature, Brandeis University: A study of autobiography as a literary form in the works of representative French writers.

DR. PARK HONAN, Assistant Professor of English, Brown University: A study of prose style in the English novel, 1890-1930.

PROFESSOR EDWIN HONIG, Professor of English, Brown University: Studies of the dramatic art of Calderón de la Barca.

DR. CYRUS HENRY HOY, Associate Professor of English, Vanderbilt University: A study of the dramatic works of Thomas Dekker.

DR. IMMANUEL C. Y. HSU, Associate Professor of History, University of California, Santa Barbara: A study of Chinese-Russian relations, 1871-1881.

DR. CARL BARTON HUFFAKER, Entomologist, University of California, Berkeley: Studies of the natural control of animal and plant populations.

MR. JOHN STILLMAN HUGGLER, Composer, New York City: Musical composition.

MR. RICHARD HOWARD HUNT, Sculptor, and Instructor in Art, University of Illinois, Chicago: Creative sculpture.

DR. LUCILLE SHAPSON HURLEY, Associate Professor of Nutrition, University of California, Davis: A study of the influence of environmental factors on the development of the mammalian fetus and neo-natal young.

MRS. CARLEEN MALEY HUTCHINS, Violin maker, Montclair, New Jersey: An analytical study of the quality of tone in musical instruments of the violin family.

DR. WILLIAM IRVINE, Professor of English, Stanford University: Studies toward a critical biography of Robert Browning.

DR. FRITZ JOHN, Professor of Mathematics, New York University: A study of finite deformations of perfectly elastic solids.

DR. NOAH R. JOHNSON, JR., Nuclear Chemist, Oak Ridge National Laboratory: Studies in nuclear spectroscopy bearing on nuclear theory.

DR. BRUCE FOSTER JOHNSTON, Professor of Economics, Food Research Institute, Stanford University: A study of the food economies of certain East African areas.

DR. DALE WELDEAU JORGENSEN, Associate Professor of Economics, University of California, Berkeley: Studies toward the construction of a unified theory of estimation for econometric models.

DR. HENRY KAHANE, Professor of Spanish and Linguistics, University of Illinois: Studies in linguistic history, with special reference to the origins of Wolfram's *Parzival*.

MR. LACHLAN PHIL KELLEY, Scholar, Midland, Texas: A study of the letters of Robert and Elizabeth Barrett Browning.

DR. PAUL JESSE KELLOGG, Associate Professor of Physics, University of Minnesota: Studies of the generation and propagation of waves in the earth's exosphere.

DR. JACK CARL KIEFER, Professor of Mathematics, Cornell University: Studies in the theories of optimal experimental designs and of invariant statistical procedures.

DR. ANNE DRAFFKORN KILMER, Research Assistant, Oriental Institute, University of Chicago: Studies of the lexical texts of ancient Mesopotamia.

DR. JAMES EDWARD KING, Professor of European History, University of North Carolina: A study of the origins and evolution of the concepts of welfare in the modern Western World.

MR. GALWAY KINNELL, Poet, Pawtucket, Rhode Island: Creative writing in poetry.

DR. SIMON BERNARD KOCHEN, Assistant Professor of Mathematics, Cornell University: Studies in mathematical logic with special reference to the word problem.

DR. RALPH DAVID KODIS, Associate Professor of Engineering, Brown University: Studies of the interaction of electromagnetic waves with ionized gases.

DR. KENNETH DAVID KOPPLE, Assistant Professor of Chemistry, University of Chicago: Studies in the synthesis of peptides for use in investigations of chemical phenomena of biological importance.

MR. VICTOR GEORGE KORD, Artist, and Instructor in Painting, University of Illinois: Creative painting.

DR. JAN KORRINGA, Professor of Physics, Ohio State University: A study of equilibrium properties and relaxation of interacting spin systems in liquids and solids.

DR. ALVIN ISAAC KRASNA, Assistant Professor of Biochemistry, Columbia University: Studies on the denaturation of nucleic acids.

DR. WILLIAM L. KRAUSHAAR, Associate Professor of Physics, Massachusetts Institute of Technology: Studies in the field of astrophysics, centered on the structure of our galaxy.

DR. ALEX DONY KRIEGER, Research Professor of Anthropology, University of Washington, Seattle: Studies of the culture and environment of early man in the New World.

MR. RICO LEBRUN, Artist, Los Angeles, California: Creative painting.

DR. ALBERT LESTER LEHNINGER, DeLamar Professor of Physiological Chemistry, Johns Hopkins University: Biophysical studies of the tertiary and quaternary structure of proteins and protein-lipid complexes.

DR. HARVEY LEIBENSTEIN, Professor of Economics, University of California, Berkeley: Comparative studies of theories of economic growth, with special reference to backward economies.

DR. EDGAR ROTHWELL LEMON, Associate Professor of Soil Science, Cornell University; Soil Scientist, U. S. Department of Agriculture: Studies in the ecology of agricultural plants by methods of micro-meteorology and plant physiology.

DR. CORNELIUS THOMAS LEONDES, Professor of Engineering, University of California, Los Angeles: Studies in the theory of modern advanced control systems.

DR. WOLFGANG ARTHUR LEPPMANN, Professor of German, University of Oregon: A study of the stage history of Goethe's plays from their first performances to the present.

DR. JOSEPH RICHMOND LEVENSON, Professor of History, University of California, Berkeley: A study of Confucian China and its modern fate.

MISS DENISE LEVERTOV, Poet, New York City: Creative writing in poetry.

DR. OSCAR LEWIS, Professor of Anthropology, University of Illinois: Studies of the culture of poverty and its transformation in contemporary Latin American communities.

MR. BRUNO LUCCHESI, Sculptor, Brooklyn, New York: Creative sculpture.

DR. JOHN FAIRBANKS LYNEN, Assistant Professor of English, University of Illinois: A study of time as a structural principle in the works of certain American authors.

DR. CAROL COOK MACCLINTOCK, Associate Professor of Musicology, Southern Illinois University: A study of the life and works of Giaches de Wert, 16th century Flemish composer.

MR. EZIO MARTINELLI, Sculptor, and Associate Professor of Painting and Drawing, Sarah Lawrence College; Instructor in Etching and Engraving, Parsons School of Design, New York City: Creative sculpture.

DR. FORREST McDONALD, Associate Professor of History, Brown University: Studies into the creation and establishment of the American governmental system, 1781-1793.

MR. JOHN HERBERT McDOWELL, Composer, New York City: Musical composition.

DR. GEORGE CUNLIFFE McVITTIE, Professor of Astronomy, University of Illinois: Studies of the predictions of theoretical models of the universe.

DR. HENRY WILLIAM MENARD, JR., Professor of Geology, University of California, La Jolla: Studies of marine turbidity currents.

DR. ROBERT K. MERTON, Professor of Sociology, Columbia University: A study of the social contexts of discovery in science.

DR. HANS MEYERHOFF, Professor of Philosophy, University of California, Los Angeles: Studies in the philosophy of history.

DR. FRANCIS EDWARD MINEKA, Professor of English, Cornell University: A study of the letters of John Stuart Mill, 1849-1873.

DR. ELLEN MOERS, Writer, New York City: A critical study of the novels of Theodore Dreiser.

MR. ROBERT WALTER MOEVS, Composer, and Assistant Professor of Music, Harvard University: Musical composition.

DR. ROBERT WHARTON MORRIS, Assistant Professor of Biology, University of Oregon: Studies of oxygen consumption of certain fishes of south temperate latitudes.

DR. FORREST SHRAGO MOZER, Section Head, Aerospace Corporation, Los Angeles: Studies of instruments for the measurement of phenomena of the upper atmosphere.

DR. WALTER HEINRICH MUNK, Professor of Geophysics, University of California, La Jolla: Analytical studies of ocean tide records.

DR. CHARLES MUSCATINE, Professor of English, University of California, Berkeley: Studies in the styles of medieval poetry.

DR. MARC NERLOVE, Professor of Economics, Stanford University: Studies in econometrics, especially in the estimation of simultaneous economic relations.

DR. BLAKE REYNOLDS NEVIUS, Professor of English, University of California, Los Angeles: A comparative study of the novels and critical writings of Nathaniel Hawthorne, George Eliot and Henry James.

DR. JAMES GORDON OGDEN, III, Associate Professor of Botany, Ohio Wesleyan University: Studies in the field of Pleistocene biogeography.

DR. SCHUBERT M. OGDEN, Associate Professor of Philosophical Theology, Southern Methodist University: A critical study of the works of Martin Heidegger, German philosopher.

MR. EDWARD CHARLES O'GORMAN, Poet, and Instructor in English, Manhattan College, New York City: Creative writing in poetry.

DR. JERRY S. OLSON, Geobotanist, Oak Ridge National Laboratory: Studies of the development and maintenance of ecological systems.

DR. PAUL ANDREW OLSON, Associate Professor of English, University of Nebraska: A study of *The Canterbury Tales* as setting forth a 14th century view of the good society.

DR. AMÉRICO PAREDES, Associate Professor of English, University of Texas: A study of bilingual and bicultural folklore in Mexico and the southwestern United States.

PROFESSOR WILLIAM RILEY PARKER, Professor of English, Indiana University: A study of the life and times of John Milton.

DR. STANLEY GEORGE PAYNE, Assistant Professor of History, University of California, Los Angeles: Studies of the Nationalist forces in the Spanish Civil War, 1936-39.

DR. BRADFORD PERKINS, Associate Professor of History, University of California, Los Angeles: Studies in the relations between the United States and England, 1812-1823.

DR. ISADORE PERLMAN, Professor of Chemistry, and Associate Director of the Lawrence Radiation Laboratory, University of California, Berkeley: Studies in the field of nuclear spectroscopy.

DR. MERRILL D. PETERSON, Professor of History, Brandeis University: Studies of the life and times of Thomas Jefferson.

DR. JAMES CHARLES PHILLIPS, Assistant Professor of Physics, University of Chicago: Studies of the electronic structure of metals and semiconductors.

DR. DAVID PINES, Professor of Physics and Electrical Engineering, University of Illinois: Studies of elementary excitations in many-body problems.

DR. DONALD PIZER, Associate Professor of English, Newcomb College, Tulane University: A critical study of the novels of Frank Norris.

DR. PHILIP P. POIRIER, Associate Professor of History, Ohio State University: A study of the British Labour Party during World War I.

DR. LEOPOLD JAROSLAV POSPISIL, Associate Professor of Anthropology, Yale University: A study of the operation of legal and social controls in an Austrian community.

DR. ERNST PULGRAM, Professor of Romance Languages and Classical Linguistics, University of Michigan: Studies in the history of the phonology of spoken Latin.

DR. HUGH FRANKLIN RANKIN, Associate Professor of History, Tulane University: A study of British military strategy in the American Revolution.

DR. LEONARD GILBERT RATNER, Professor of Music, Stanford University: Studies of musical forms of the Viennese Classic period.

DR. BERTRAM H. RAVEN, Associate Professor of Psychology, University of California, Los Angeles: Psychological studies in the field of group behavior.

DR. LIONEL ISRAEL REBHUN, Assistant Professor of Biology, Princeton University: Studies of living cell structure and function.

DR. IRVING REINER, Professor of Mathematics, University of Illinois: Studies of representations of finite groups in rings of integers.

DR. MAX ERICH REISSNER, Professor of Mathematics, Massachusetts Institute of Technology: Studies of the problem of deriving two-dimensional theories of thin elastic shells from the equations of three-dimensional elasticity.

DR. WILLIAM HENRY REY, Professor of Germanics, University of Washington, Seattle: A study of the life and works of Arthur Schnitzler, 1862-1931.

DR. FRED L. RIBE, Group Leader in Plasma Physics, Physics Division, Los Alamos Scientific Laboratory: Studies of processes in high temperature laboratory plasmas and their application to astrophysical problems.

DR. NORMAN ROBERT RICH, Professor of History, Michigan State University: A study of German war aims and occupation policies during World War II.

MR. DEAN RICHARDSON, Artist, and Instructor in Drawing, Rhode Island School of Design: Creative painting.

DR. ELLIS RIVKIN, Professor of Jewish History, Hebrew Union College, Cincinnati: A study of the role of Jews in the development of early capitalism.

DR. HENRY LITHGOW ROBERTS, Professor of History, and Director, Russian Institute, Columbia University: Studies of revolutionary Russia and of American perceptions of the Soviet Union in the period since 1945.

MR. SEYMOUR ROSOFSKY, Artist, and Instructor in Art, Wright Junior College and Art Institute of Chicago: Creative painting.

DR. GUNTHER ERICH ROTHENBERG, Assistant Professor of History, Southern Illinois University: Studies in the history of the Austrian military border in Croatia and Slavonia during the 19th century.

PROFESSOR JOSÉ RUBIA BARCIA, Professor of Spanish Literature, University of California, Los Angeles: Studies of the works of Ramón del Valle Inclán, 1866-1936.

DR. WILLIAM J. RUTTER, Associate Professor of Biochemistry, University of Illinois: Studies on molecular control of cellular differentiation.

DR. GEORGES SABAGH, Associate Professor of Sociology, University of Southern California: A study of population trends and differentials in Morocco.

DR. GERARD SALTON, Assistant Professor of Applied Mathematics, Harvard University: Studies in the field of automatic information storage and retrieval.

MR. WHITNEY LEE SAVAGE, Painter, Piermont, New York: Creative painting.

DR. DONALD TURNER SAWYER, JR., Assistant Professor of Chemistry, University of California, Riverside: A study of the theory and practice of gas chromatography.

DR. HAROLD ABRAHAM SCHERAGA, Professor of Chemistry, Cornell University: A thermodynamic study of the interactions between the side-chains of proteins.

DR. A. ARTHUR SCHILLER, Professor of Law, Columbia University: Studies of the role of Roman jurists in the development of the Roman Empire's legal system during the late Principate.

MR. GUNTHER A. SCHULLER, Composer, New York City: Musical composition.

DR. MERTON MILLER SEALTS, JR., Professor of English, Lawrence College: Studies of the journals of Ralph Waldo Emerson.

DR. RUSSELL PERRY SEBOLD, III, Assistant Professor of Spanish, University of Wisconsin: Studies in 18th century Spanish literature.

DR. OSKAR SEIDLIN, Professor of German, Ohio State University: A critical study of the literary works of Joseph von Eichendorff, 1788-1857.

PROFESSOR FRANCIS REYNOLDS SHANLEY, Professor of Engineering, University of California, Los Angeles: Studies toward the development of a unified philosophy of structural design.

DR. MAURICE MANDEL SHAPIRO, Superintendent, Nuclear Division, and Head, Cosmic Ray Branch, U. S. Naval Research Laboratory, Washington, D. C.: Studies of cosmic ray interactions at ultra high energies and of recent developments in the theory of nuclear structure.

MISS GERALDINE SHARPE, Photographer, San Francisco, California: Photographic studies of certain social groups.

MR. LOUIS SHEAFFER, Writer, Brooklyn, New York: Studies of the life and times of Eugene Gladstone O'Neill.

DR. JOHN R. SILBER, Associate Professor of Philosophy, University of Texas: A study of the nature of human acts and responsibility.

DR. LOUIS SIMPSON, Associate Professor of English, University of California, Berkeley: Creative writing in poetry and prose.

MR. EZRA G. SIMS, JR., Composer, Boston, Massachusetts: Musical composition.

MR. JAMES LESLIE TUCK, Associate Division Leader, Physics Division, Los Alamos Scientific Laboratory, Los Alamos, New Mexico: Studies in the fields of plasma physics and molecular biology.

DR. KARL K. TUREKIAN, Associate Professor of Geology, Yale University: Studies of models of ancient compositions of the hydrosphere and atmosphere and of the fine carbonate fraction of deep-sea sediments.

MR. ANSEI UCHIMA, Artist, and Instructor, Pratt Graphic Art Center, New York City: Creative printmaking.

DR. BARRY ULANOV, Associate Professor of English, Barnard College: Studies in the rhetoric of love based upon the tradition of King Solomon's *The Song of Songs*.

DR. JEAN G. S. VAN BLADEL, Professor of Electrical Engineering, University of Wisconsin: A study of electromagnetic theory with emphasis on propagation in anisotropic media.

DR. RICHARD STEVEN VARGA, Professor of Mathematics, Case Institute of Technology: Studies in the numerical solution of partial differential equations.

DR. ARAM VARTANIAN, Associate Professor of French, University of Minnesota: A study of the relations between science and humanism in the French Enlightenment.

DR. THEODORE VERMEULEN, Professor of Chemical Engineering, University of California, Berkeley: A study of the mechanisms of molecular transport across liquid interfaces.

DR. JOHN NATHANIEL VINCENT, JR., Composer, and Professor of Composition, University of California, Los Angeles: Musical composition.

DR. THEODORE HERMAN VON LAUE, Professor of History, University of California, Riverside: Analytical studies of modern European and world history from 1870 to 1960.

MR. EDWARD LEWIS WALLANT, Novelist, Norwalk, Connecticut: Creative writing in fiction.

DR. HENRY CHRISTOPHER WALLICH, Professor of Economics, Yale University: Studies of monetary issues and policies in countries of different economic structure.

DR. TALBOT HOWE WATERMAN, Professor of Zoology, Yale University: Studies of the response of certain marine invertebrates to polarized light.

DR. FLOYD C. WATKINS, Professor of English, Emory University: A study of the development of certain contemporary American writers.

DR. LEE WOLF WATTENBERG, Associate Professor of Pathology, University of Minnesota Medical School: Studies in the biochemistry of ribonuclease.

DR. JOHN STEWART WAUGH, Associate Professor of Chemistry, Massachusetts Institute of Technology: Studies of the theory of spin resonance.

DR. JOSEPH WEBER, Professor of Physics, University of Maryland: Studies in the fields of classical and quantized general relativity.

DR. FRANK HENRY WESTHEIMER, Professor of Chemistry, Harvard University: Studies of the chemistry of phosphate esters.

MR. FREDERICK BERNAYS WIENER, Lawyer, Washington, D. C.: A study of recent Supreme Court decisions concerning military jurisdiction over civilians.

MR. HIRAM D. WILLIAMS, Artist, and Assistant Professor of Art, University of Florida, Gainesville: Creative painting.

MR. THOMAS ALONZO WILLIAMS, JR., Novelist, and Assistant Professor of English, University of New Hampshire: Creative writing in fiction.

DR. WILLIAM ABELL WIMSATT, Professor of Zoology, Cornell University: Comparative studies of reproductive physiology and eye structure in tropical bats.

MR. JAMES WINES, Sculptor, Summit, New Jersey: Creative sculpture.

MRS. CLARA BRUSSEL WINSTON, Novelist, Amherst, Massachusetts: Creative writing in fiction.

DR. RICHARD L. WOLFGANG, Associate Professor of Chemistry, Yale University: Studies of chemical reaction mechanisms of high energy atoms.

MR. STEFAN WOLPE, Composer, and Professor of Music, C. W. Post College of Long Island University: Musical composition.

PROFESSOR ROBERT SMITH WOODBURY, Associate Professor of the History of Technology, Massachusetts Institute of Technology: Studies in the history of machine tools.

DR. ARTHUR EUGENE WOODWARD, Associate Professor of Physics, Pennsylvania State University: Studies on the dynamic properties of high polymer crystals.

DR. HILDEGARDE HOWARD WYLDE, Research Associate in Vertebrate Paleontology, Los Angeles County Museum: Paleornithological studies of the late tertiary and of the quaternary periods in the western United States.

DR. CHEN NING YANG, Professor of Physics, Institute for Advanced Study: Studies of weak interactions and superconductivity.

MR. RICHARD YATES, Novelist, New York City: Creative writing in fiction.

DR. MORTON DAUWEN ZABEL, Professor of English, University of Chicago: Biographical and critical studies of Joseph Conrad and Henrik Ibsen.

DR. MARÍA CONCEPCIÓN ZARDOYA, Professor of Spanish, Tulane University: Creative writing in poetry.

DR. ROBERT PAUL ZIFF, Associate Professor of Philosophy, University of Pennsylvania: Studies of the relationship between feelings and behavior.

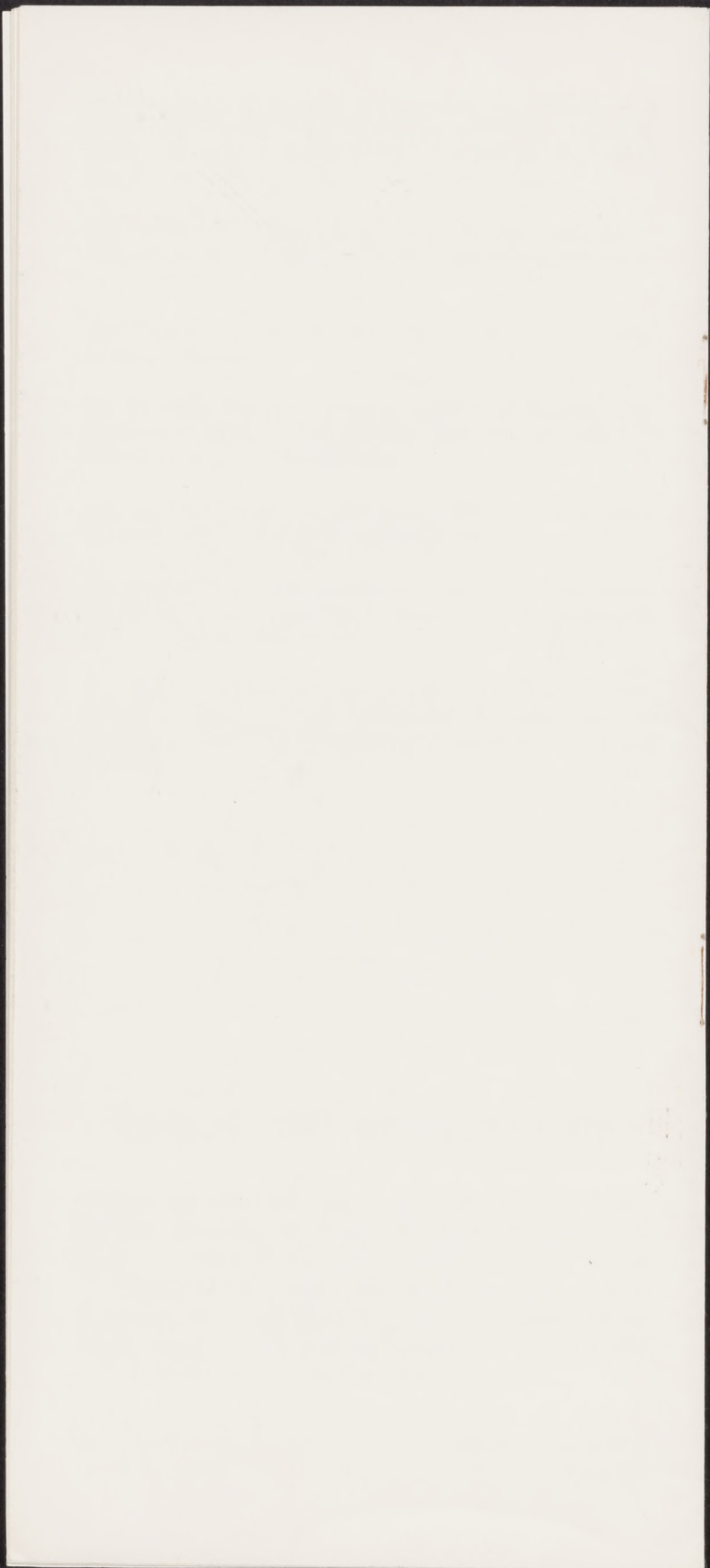
DR. MOSES ZUCKER, Associate Professor of Talmud, Jewish Theological Seminary of America: A critical study of available manuscript fragments of Saadya Gaon's lost writings.

COMMITTEE OF SELECTION

The Committee of Selection consisted of Dr. Louis Booker Wright, *Chairman*, Dr. George W. Corner, Dr. Willard F. Libby, Dr. Henri M. Peyre, Dr. Carl O. Sauer, Dr. Samuel E. Thorne, and Dr. Edwin Bidwell Wilson. The advisory committee for applications from artists consisted of Mr. Lewis Iselin, Mr. Oronzio Maldarelli, Mr. Arthur Osver, Mr. Franklin Watkins and Mr. Carl Zigrosser.

New York City
April 30, 1962

HENRY ALLEN MOE,
President



Please return to Hildegard

Hildegard Howard Wylde
Studies in paleornithology relating to late Tertiary and
Quaternary birdlife of western United States

ACCOMPLISHMENTS

Teachers: I was very fortunate to have as my teachers
at the University of California (1920 - 1928),
and chief mentors, the following outstanding
Ornithologists and/or Paleontologists:
Prof. Loye Holmes Miller, Prof. Joseph Grinnell,
Prof. Chester Stock, and Prof. William Diller
Matthew.

Research: The bibliography submitted will serve to
indicate the various individual subjects of
research on fossil birds that have been
undertaken, in the order of their completion.

It will be noted that emphasis has been placed
on fossil birds of western United States,
particularly of the Pleistocene of Rancho
La Brea, California. Closely related to the
La Brea studies are those concerning other
Pleistocene localities in southern California,
also of Fossil Lake, Oregon, and of Quaternary
caves in New Mexico, Nevada and California.
Pliocene and Miocene birds of southern Cali-
fornia have also received attention. One
study, quite far afield, was carried on at the
request of Dr. George Gaylord Simpson, then
of the American Museum of Natural History,
wherein a collection of bones from the Eocene
of Patagonia was analyzed.

I have just completed a review of the fossil
anseriforms of the world which is to be pub-
lished in Jean Delacour's 4th volume of
"Waterfowl of the World." I am now studying
what appears to be a second occurrence of the
unique "bony-toothed" Miocene bird, Osteodontornis
(the type of which was described for the Santa
Barbara Museum of Natural History in 1956-1957).

The above research, carried on over a period
from 1924 to date, has resulted in the description
of 23 extinct species and 6 genera, and the
recommendation for establishing two new families

Hildegarde Howard Wylde
Studies in paleornithology relating to late Tertiary and
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ACCOMPLISHMENTS (continued)

Research (continued):

and one new order. It has included, as well, detailed analyses of large series of skeletal elements of individual species, both newly discovered and previously known. Such analyses were made wherever possible in order to establish trends of variation and determine relationships with other fossil or living forms. Particular attention has been given to evolutionary trends between Pleistocene and Recent birds.

PLANS

As of September 18, 1961, I retired from my position as Chief Curator of the Division of Science at the Los Angeles County Museum for the express purpose of being able, now, to have time for the furtherance of my research in paleornithology. During the last ten years much new fossil bird material has been added to the collections at the Los Angeles County Museum, only a small portion of which have I been able to study while holding this administrative post. I plan now to proceed with the detailed study of this material.

The work will involve not only the identification of the bird fossils in the Los Angeles County Museum collections, but the analysis of this material in comparison with previously recorded material. In many instances, I anticipate the necessity of reviewing a large number of specimens belonging to other museums, in order to clarify old records and establish the proper position of the new specimens. Some material can, of course, be borrowed from other museums, but for the study of types, or of large series of specimens, it will be necessary for me to visit several museums.

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PLANS (continued)

Progress to date

A survey of some of the problems awaiting study
has been made, as follows:

1. Analysis of a new Quaternary cave fauna
from New Mexico. Preliminary identifications
have been made. *Pub. Condor 1962*
2. Analysis of a new lower Pleistocene fauna
from the Anza Desert, California. A cursory
examination of material has been made. *pub. Pac. Cont. 1963*
- ✓ 3. Analysis of newly acquired Miocene shear-
water specimens in comparison with previously
recorded shearwaters. Preliminary exami-
nation suggests the presence of more than
one species. *1/2 1962*
- ✓ 4. Review of the Pliocene avifauna of San
Diego County in the light of new material
now available. A cursory examination of
the new material has been made. *Mauicella analyzed 1969?*
- ✓ 5. Study of swans and large geese to determine
the frequency of occurrence of the "mute"
swan and a giant goose in North America.
A preliminary examination of some of the
large anseriform material in the Los Angeles
County Museum and University of California
collections has been made while preparing
the review of fossil anseriforms (noted above).
6. Analysis of the relationships of the "Pigmy
Goose", Anabernicula. The need for this
analysis was recognized in the course of
the study of the Fossil Lake collections
and in preparing the review of fossil
anseriforms (noted above). *ms ready 1964
pub. Amer. Mus. Nov. 1964*
7. The California Institute of Technology
collection of vertebrate fossils, numbering
over 50,000 specimens, was acquired by the *1962*

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PLANS (continued)

Progress to date (continued)

7. (continued) Los Angeles County Museum in 1957. A cursory examination of a portion of the collection indicates that there are unrecorded bird fossils from several localities.
8. Although no new material has been added to the Rancho La Brea collections, there are still problems to be undertaken in this field. While carrying on previous studies on Rancho La Brea, I have made note of problems requiring further attention.

*Census taken
1962*

Expectation of completion and publication

The study of fossil birds appears to be never ending. Concerning the problems noted above, however, I would expect to be able to study the material needed for the first six on an eastern trip in the spring of 1962, and complete at least three of them in that year. Three or more should be completed in 1963. By that time, the further potentialities of the collections at the Los Angeles County Museum will be evident, and another set of problems established.

Publications will probably not lag far behind actual completion of the projects, as the Los Angeles County Museum has its own technical series, "Contributions in Science", in which I would hope to publish.

Place of work and facilities

The Los Angeles County Museum will be headquarters for the major part of the proposed research. Laboratory facilities and working space will be

Hildegarde Howard Wylde
Studies in paleornithology relating to late Tertiary
and Quaternary birdlife of western North America

PLANS (continued)

Place of work and facilities (continued)

at my disposal here. I anticipate, however, that I will need aid in the preparation of illustrations (drawing and photography), and also to measure series of specimens, to do statistical work, and to assist me in systematically going through the entire vertebrate fossil collection at the Los Angeles County Museum in search of bird fossils. Typing help may be required; the Museum will provide typing assistance as much as possible, but in times of heavy work load, outside aid may be required.

Work outside the Los Angeles County Museum will involve visits of short duration to other museums in California, Arizona and the eastern United States. These visits will have as their prime purpose the study of the fossil bird collections, but they will also afford the opportunity of consultation with other paleornithologists (Dr. A. Wetmore, Dr. Loye Miller, Dr. Alden Miller, Dr. Pierce Brodkorb, in particular).

Objectives

The chief objective of this projected study, as well as my ultimate purpose in carrying on paleornithological research, is to increase the knowledge of bird life of the past as a contribution to the understanding of avian evolution.